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PERSONAL.

Mr. Sheldon T. Bent, Superintendent of the Interoceanic Ry. of Mexico, with headquarters in the City of Mexico, has resigned.

Mr. E. M. Collins, Car Service Agent of the Missouri, Kansas & Texas Ry., with headquarters at St. Louis, Mo., has been appointed Superintendent of Car Service.

Mr. Lafayette Higgins, civil and architectural engineer, until April 18 City Engineer of Des Moines, Ia., has opened an office in that city at 352 and 353 Good Block.

Mr. Henry Wingeland, civil engineer, of Sioux City, Ia., who was reported last week to be suffering from nervous prostration, was elected City Engineer of that city a short time ago.

Mr. Frank Martin, electrical engineer, formerly New York representative of the Electro Dynamic Co., of Philadelphia, Pa., has accepted a position with the Appert Glass Co., 11 Broadway, New York.

Mr. N. W. Taylor has been appointed City Engineer of Tacoma, Wash., to succeed Mr. Frank L. Davis. Mr. Taylor has but recently returned to Tacoma from Alaska where he has been engaged on the Chilkoot Company's tramway.

Lieut. Col. William Ludlow, Engineer Corps, U. S. A., who has been in charge of the U. S. Engineer Office in New York city for a year past, has been appointed to the staff of Major General Miles, as Chief of the Engineer Corps in the field.

Mr. W. T. Ingraham, Engineer of the Interoceanic Ry. of Mexico, with headquarters in the City of Mexico, has been appointed Superintendent of Transportation and Chief Engineer, with offices as heretofore. Mr. S. G. Ramsey has been appointed Assistant Superintendent of Transportation.

Mrs. William W. Wells, wife of the present Superintendent of City Parks, in Chicago, was appointed Superintendent by Mayor Harrison, on April 23, to act during the absence of her husband, who is now assigned to the First Battalion of Engineers for duty in the present war. At least, so say Chicago news items.

Mr. George W. Brown, formerly Assistant Engineer with the Nicaragua Canal Commission, has been appointed by the Secretary of the Navy to have charge of the construction of the new coaling station to be built at the Dry Tortugas, Fla., by the Union Bridge Co. Mr. Brown was with the U. S. Engineer Department in Alabama from 1892 to 1894 and designed and partly constructed a large canal lock on the Tennessee River. From 1895 to 1896 he was Topographical Engineer of Chatham county, Georgia.

Mr. Joseph Mayer, M. Am. Soc. C. E., and Mr. E. Ludlow Gould, civil engineer, have become associated with the firm of R. W. Hildreth & Co., of New York city, as consulting engineers. Mr. Mayer is the Consulting Engineer of the proposed New York and New Jersey Bridge across the Hudson River, and was Chief Engineer of the Union Bridge Co. of that city for a number of years. Mr. Gould is a graduate of the School of Mines of Columbia University, New York. The offices of the above named firm have been removed from the Tower Building, 50 Broadway, to the Hudson Building, 32 Broadway.

Mr. Frank Thomson, President of the Pennsylvania R. R., with headquarters in Philadelphia, Pa., has been appointed Master of Transportation by Secretary Alger. He will have charge of all military railways and of the movement of troops and supplies in the war with Spain. At the beginning of the Civil War Mr. Thomson, who was employed in the shops of the Pennsylvania R. R., was appointed Chief Assistant to Mr. Thomas A. Scott, the President of the road at that time, who had been made Assistant Secretary of War in charge of transportation. Mr. Thomson served throughout the war in this capacity and is therefore well prepared to again assume this important military position.

OBITUARY.

Mr. Richard G. Jones, contractor, of Utica, N. Y., died April 19, aged 73.

Mr. Charles F. Taft, mechanical engineer, of Brooklyn, New York city, died April 15, aged 36.

Mr. Richard C. Graves, President of the Artesian Water Co., of Memphis, Tenn., died April 18. He was also President of the Memphis Brick Co. and Manager of the Bohlen-Huse Ice Co.

Mr. Brock Reinhart, civil engineer, of the Maintenance of Way Department of the West Virginia Central & Pittsburg Ry., died at Cumberland, Md., April 19, aged 30.

Dr. Cornelius Nevins Hoagland, President of the Greenport City Water Co., Greenport, N. Y., died at his home in Brooklyn, New York city, April 24, aged 70. He founded and built the Hoagland Laboratory, Brooklyn, and served during the Civil War as a surgeon in the Union Army.

Mr. William G. Creamer, inventor and manufacturer and dealer in railway supplies, of New York city, died at his home in Brooklyn, April 22. He invented a car-brake in 1856, which was used quite extensively until 1874, when the air-brake was adopted. He also perfected some car ventilating devices and other railway appliances.

Col. Sir Vivian Dering Majendie, C. B., Chief Inspector of Explosives since 1871, died at London, England, April 24, aged 71. He was educated at Leamington College and entered the Royal Artilley in 1854. He served in the Crimean War and in the Indian Mutiny. From 1861 to 1871 he was Captain Instructor and Assistant Superintendent of the Royal Laboratory, Woolwich, England.

Mr. Frederick Eckel, manufacturer of engineers' and surveyors' instruments and supplies, Beekman Bldg., New York city, died at his home in Brooklyn, April 23. He was born in New York city, Feb. 11, 1835, and received his technical education at Cooper Institute. He served in the United States Navy during the Civil War and at its conclusion established the above business in New York.

Mr. J. B. Alderson, civil and electrical engineer, committed suicide, by shooting, on April 23, in New York city. Mr. Alderson is said to have been an inventor of several electrical appliances in use and to have been, at one time, Superintendent of the works of the Harrison Electrical Co., of Newark, N. J. He was interested in exploiting a railway scheme in the Klondike region; and the failure of the project is said to have probably unsettled his mind.

Capt. Thomas H. Morton, who served under Admiral Farragut at the Battle of New Orleans during the Civil War, died at his home in Brooklyn, New York city, April 19, aged 67. He went to sea at the age of 12 as a cabin boy and was the captain of a merchant ship when 23 years of age. He had charge of dredging operations on the Panama Canal under De Lesseps, and was afterwards engaged on the Nicaragua Canal in a similar capacity by Mr. Warner Miller.

Mr. Edmund F. Farrington, bridge engineer, died in Cincinnati, O., April 22, aged 76. He was struck by an electric car, April 15, while superintending the reconstruction of the suspension bridge across the Ohio River at that city, and the injuries he received, in connection with the weakening of his constitution by his advanced years, proved fatal. Mr. Farrington was the Master Mechanic of the New York and Brooklyn Bridge, and on Aug. 25, 1876, crossed the river on a boatswain's chair suspended from a temporary traveler-rope. He was thus the first man to cross the bridge. The time occupied in pulling him over was 22 minutes.

Mr. Guido Fridolin Verbeck died at Tokyo, Japan, March 10. He was born in Zeist, Utrecht, Holland, Jan. 23, 1830, and graduated as a mechanical engineer from the University of Utrecht. In the early fifties he spent several years in Arkansas and Wisconsin building marine engines and then entered the ministry. He went to Japan as a missionary in November, 1859, and was made teacher of the government school of languages. For several years he is said to have been the sole confidential adviser of the government and planned the embassy round the world in 1871 to 1873, which made Japan so well known abroad. It is said that he was the best alien speaker of the Japanese language in the world.

ENGINEERING SOCIETIES.

COMING TECHNICAL MEETINGS.

ENGINEERS' SOCIETY OF WESTERN NEW YORK.
May 2. Secy., H. J. March, Library Bldg., Buffalo, N.Y.
CIVIL ENGINEERS' SOCIETY OF ST. PAUL.
May 2. Secy., C. L. Annan, City Engineers' Office, St. Paul, Minn.
ENGINEERS' CLUB OF ST. LOUIS.
May 4. Secy., Richard McCulloch, St. Louis, Mo.
FRANKLIN INSTITUTE.
May 4. Secy., Wm. H. Wahl, 15 S. 7th St., Philadelphia, Pa.
AMERICAN SOCIETY OF CIVIL ENGINEERS.
May 4. "Flushing in Pipe Sewers," H. N. Ogden. Secy., C. W. Hunt, 220 West 57th St., New York city.
WESTERN SOCIETY OF ENGINEERS.
May 4. "Locomotive Water Supply," Theodore W. Snow; "The Cycloidal Pump," Chas. E. Billin. Secy., N. L. Litten, Monadnock Block, Chicago, Ill.
BROOKLYN ENGINEERS' CLUB.
May 5. "Lubricating Oils; their Manufacture and Composition," W. L. Marshall. Secy., A. J. Provost, Jr., 191 Montague St., Brooklyn, N. Y.
TECHNICAL SOCIETY OF THE PACIFIC COAST.
May 6. Secy., O. Von Geldern, 519 Market St., San Francisco, Cal.
CHICAGO ELECTRICAL ASSOCIATION.
May 6. Secy., J. R. Cravath, 825 Monadnock Block, Chicago, Ill.
THE ENGINEERS' CLUB OF PHILADELPHIA.
May 7. Secy., L. F. Rondinella, 1122 Girard St., Philadelphia, Pa.
ENGINEERS' CLUB OF KANSAS CITY.
May 9. Secy., F. W. Tuttle, Baird Bldg., Kansas City, Mo.
LOUISIANA ENGINEERING SOCIETY.
May 9. Secy., J. F. Coleman, 712 Union St., New Orleans, La.
RAILWAY SIGNALING CLUB.
May 10. Secy., Earl M. Seitz, Signal Engr., C. & N. W. Ry., Chicago, Ill.
DENVER SOCIETY OF CIVIL ENGINEERS.
May 10. Secy., W. B. Lawson, 36 Jacobson Bldg., Denver, Colo.
NORTHWEST RAILWAY CLUB.
May 10. Secy., T. A. Foque, Soo Line, Minneapolis, Minn.
NEW ENGLAND RAILROAD CLUB.
May 11. Secy., Edward L. Janes, P. O. Box 1158, Boston, Mass.
ENGINEERING ASSOCIATION OF THE SOUTH.
May 12. Nashville, Tenn. Secy., C. B. Wilson, Nashville, Tenn.
CANADIAN SOCIETY OF CIVIL ENGINEERS.
May 12. Secy., C. A. McNab, 112 Mansfield St., Montreal, Can.
CIVIL ENGINEERS' CLUB OF CLEVELAND.
May 12. Secy., Wm. H. Searles, Case Library Bldg., Cleveland, O.
CENTRAL RAILWAY CLUB.
May 13 Buffalo, N. Y. Secy., H. D. Vought, 114 Fifth Ave., New York city.
ST. LOUIS RAILWAY CLUB.
May 13. Secy., H. H. Roberts, 511 Commercial Bldg., St. Louis, Mo.
MONTANA SOCIETY OF ENGINEERS.
May 14. Secy., Albert S. Hovey, Helena, Mont.
INDIANAPOLIS ENGINEERING CLUB.
May 14. Secy., Edson F. Folsom, Indianapolis, Ind.
TECHNICAL CLUB OF OMAHA.
May 16. Secy., J. Harry Lawrie, Omaha, Neb.
ENGINEERS' CLUB OF MINNEAPOLIS.
May 16. Secy., H. E. Smith, 1620 S. E. 4th St., Minneapolis, Minn.
ENGINEERS' AND ARCHITECTS' CLUB OF LOUISVILLE.
May 16. Secy., Jas. K. Zollinger, 16 Norton Bldg., Louisville, Ky.
ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.
May 17. Secy., R. A. Fessenden, 410 Penn Ave., Pittsburg, Pa.
ILLINOIS STREET RAILWAY ASSOCIATION.
May 18. Annual meeting. Secy., C. K. Minary, Springfield City R. R., Springfield, Ill.
WESTERN RAILWAY CLUB.
May 18. Secy., F. M. Whyte, 225 Dearborn St, Chicago, Ill.
BOSTON SOCIETY OF CIVIL ENGINEERS.
May 18. Secy., S. E. Tinkham, City Hall, Boston, Mass.
WESTERN FOUNDRYMEN'S ASSOCIATION.
May 18. Annual meeting. Secy., A. Sorge, Jr., 1020 Monadnock Block, Chicago, Ill.
ENGINEERS' AND ARCHITECTS' ASSOCIATION OF SOUTHERN CALIFORNIA.
May 18. Secy., Frank H. Olmstead, Los Angeles, Cal.
SOUTHERN AND SOUTHWESTERN RAILWAY CLUB.
May 19. Secy., F. A. Charplot, Macon, Ga.
ENGINEERS' CLUB OF CINCINNATI.
May 19. Secy., J. F. Wilson, P. O. Box 333, Cincinnati, O.
NEW YORK RAILWAY CLUB.
May 19. Secy., W. W. Wheatley, 168 Montague St., Brooklyn, N. Y.
ENGINEERS' CLUB OF COLUMBUS.
May 21. Secy., M. S. Hopkins, 14½ N. High St., Columbus, O.
AMERICAN INSTITUTE ELECTRICAL ENGINEERS.
May 25. Secy., R. W. Pope, 26 Courtlandt St., New York city.
AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
May 30, June 4. Spring meeting, Niagara Falls, N. Y. Secy., Prof. F. R. Hutton, 12 W. 31st St., New York city.
NATIONAL ELECTRIC LIGHT ASSOCIATION.
June 7-9. Annual meeting, Chicago, Ill. Secy., George F. Porter, 136 Liberty St., New York city.
OHIO STREET RAILWAY ASSOCIATION.
June 8. Annual meeting, Columbus, O. Secy., Frank J. J. Sloat, Akron, O.
AMERICAN WATER-WORKS ASSOCIATION.
June 14-16. Annual meeting, Buffalo, N. Y. Secy., Peter Milne, 95 William St., New York city.
MASTER CAR BUILDERS' ASSOCIATION.
June 15-17. Annual meeting, Saratoga, N. Y. Secy., Jno. W. Cloud, 974 Rookery, Chicago, Ill.
AMERICAN RAILWAY MASTER MECHANICS' ASSOCIATION.
June 20-22. Annual meeting, Saratoga, N. Y. Secy., John W. Cloud, 974 Rookery, Chicago, Ill.

CHICAGO ELECTRICAL ASSOCIATION.—At the meeting on April 15, a paper on "The Electric Railway" was read by Mr. W. R. Garton, Railway Manager of the Central Electric Co., and the discussion turned mainly on the merits of different types of motors.

CHICAGO RAILWAY ASSOCIATION. — At the annual meeting of this association, held on April 3, the following officers were elected for the ensuing year: Chairman, Geo. S. Marsh; Vice-Chairman, W. A. Lalor; Secy. and Treas., H. P. Bronson; Executive Committee, F. W. Buskirk and A. F. McMillan.

ENGINEERS' AND ARCHITECTS' CLUB OF LOUISVILLE.—The regular monthly meeting of this club was held on April 18, at which Mr. Pierce Butler read a paper on the subject of photography as an aid to engineering reports, and Mr. J. M. Johnson, Am. Soc. C. E., read a paper on standard specifications for structural steel.

Jos. K. Zollinger, Secy.

AMERICAN SOCIETY OF CIVIL ENGINEERS.—At the regular meeting of this society held in New York city April 20, Mr. James Ritchie, of Cleveland, O., presented a paper entitled "The Construction of the Lorain Dry Dock and Shipyard of the Cleveland Ship-Building Co." This was a description of the new plant of this company recently built at Loraine, O. The dry dock was described in detail.

ENGINEERS' CLUB OF COLUMBUS.—The paper read at the last meeting of this club, held on April 16, was entitled "The Boston Subway" (Eng. News, Feb. 3, 1898). It was read by Mr. W. F. Kelly, General Superintendent of the Columbus Street Ry. Mr. Kelly described the plan of the work and the tunnel in general, explaining at some length the difficulties encountered in the construction work by coming in contact with gas and water mains, sewers and other subsurface construction.

ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.—At the regular meeting of this society, held at Pittsburg, Pa., on April 19, Mr. Arthur Kirk, the manufacturer of dynamite, read a paper on "High Ex-

plosives," in which he discussed the different types of explosives, but spoke particularly with reference to dynamite in its different combinations. In the discussion Capt. A. E. Hunt brought out a number of interesting points with regard to nitrate of soda for making dynamite safer and preventing decomposition.

ENGINEERS' CLUB OF ST. LOUIS.—The 471st meeting of this club was held on April 20, with 43 present. The paper of the evening entitled a "Modern Telephone Plant," was read by Mr. Fred. E. Bausch. The paper gave a brief summary of recent progress in telephony and gave a description of standard apparatus in use. The advantages of copper lines over iron wire, the effect of capacity, the advantages of cables and the requisites for underground cables were considered. The paper closed with a description of the recent underground conduit installed by the Bell Telephone Co. in the city of St. Louis, and of a large switchboard built by the same company. Richard McCulloch, Secy.

SCRANTON ENGINEERS' CLUB.—This club held its regular meeting on April 21. Mr. C. C. Elwell, Superintendent of the Norwich Division of the New England R. R., delivered a lecture entitled "English and American Railways Compared." Mr. Elwell represented his company at the International Railway Congress held at London in 1895, at which time he took many photographs showing the construction of, and the methods of maintenance and operation of English railways as well as of several railways in Holland, Belgium, Switzerland and France, which were shown in this lecture by the aid of the lantern. F. E. Pratt, Secy.

FRANKLIN INSTITUTE.—At the meeting of the Society, held April 20, Mr. B. C. Batcheller, Engineer the Batcheller Pneumatic Tube Co., read a paper entitled "Recent Progress in the Development of Pneumatic Dispatch Tubes." In this the early history of pneumatic dispatch tubes, as developed in several European cities, was outlined. The 6-in. postal line in Philadelphia, installed in 1893, was described and the various 8-in. circuits recently installed in New York, Boston and Philadelphia were next explained. The paper closed with a consideration of the theory of the flow of air in long pipes and the apparatus for sending, receiving and switching carriers, and the method used in boring the cast-iron tubes used in the system.

THE ENGINEERING ASSOCIATION OF THE SOUTH.—A full meeting of this association was held at Nashville, Tenn., on April 14, at which Dr. P. M. Jones, of Vanderbilt University, read a paper on "Biology and its Connection with the Purification of Public Water Supplies." In this the methods of study of bacteria were outlined and the various processes of treatment of water supplies to free them from bacteria were discussed. In connection with this it was stated that sand filters were said to remove about 99.6% of the bacteria. That this removal directly affects the health of the community was shown by examples, among which Lawrence, Mass., was selected as an excellent example. In this city sand filtration had caused a reduction of typhoid fever fully 50%. It was argued that united efforts should be made throughout the country to secure better sanitary conditions and especially better public water supplies.

WESTERN FOUNDRYMEN'S ASSOCIATION.—The April meeting was held in the Great Northern Hotel, Chicago, on April 20. The first subject of discussion was as follows: "Is it Economical to Ventilate a Foundry by Artificial Means?" Some of the members thought it would not be economical to do more than provide open windows and transoms, though fans might sometimes be necessary. Mr. A. Sorge, Jr., however, thought artificial ventilation would be economical, for the molders could work while the pouring was going on. Thus the cost of the plant would be decreased, less land being required, and the expense of operation would be reduced. In his opinion a fan would be the only effective means, as a chimney would not remove a sufficient volume of air.

The next subject taken up was: "What is your Experience as to the Effect upon Coke of Exposing it in the Open Air?" Mr. Stantial and Mr. Carver thought there was little difference whether the coke was housed or exposed, but the latter considered there was some advantages in exposing it, especially if sulphurous, as the rain and air tend to oxidize the sulphur. In one case some apparently good coke became so badly discolored after exposure that he had an analysis made, and found 0.95% of sulphur. The coke company apologized for having delivered coke of such quality.

Nominations for officers, directors and editing committee were then made, and will be voted upon at the May meeting.

WESTERN RAILWAY CLUB.—The April meeting took the form of an excursion from Chicago to Lafayette, Ind., to visit the shops of the Chicago & Louisville Ry., and also Purdue University. A special train of seven cars was provided by the courtesy of the railway company and about 200 members and guests took part in the excursion. Lunch was served during the morning trip, and supper during the return trip, a baggage car having been fitted up with tables, etc. The train left Chicago at 9.30 a. m., arriving at Lafayette at 12.45, where it was at once backed up to the shops, which are comparatively new, having been built about four years ago. A roundhouse with 21 stalls 77 ft. deep and a steel turntable 70 ft. diameter (without end supports) is among the features of the plant. There is also a 70-ft. electric transfer table. Among the principal buildings are the machine shop, 95 x 210 ft.; engine and boiler house, 50 x 64 ft.; car shops, 95 x 210 ft.; paint shop, 95 x 150 ft.; blacksmith shop, 95 x 100 ft.; and office and storehouse, 50 x 97 ft. Compressed air is used for hoists, polishing wheels, putting on hose fittings, etc. There are complete systems of water supply, sewerage and heating. Mr. L. H. Parker is Superintendent of Motive Power; Mr. H. Watkeys, Master Mechanic; Mr. W. H. Coburn, Assistant Master Mechanic; and Mr. Charles Collier, Master Car Builder.

At 2 p. m. the party returned to the city, where street cars were waiting to take it to Purdue University. The great center of attraction here was the locomotive laboratory, where the Schenectady eight-wheel passenger engine was running at speeds equivalent to 20 to 40 miles per hour. The other departments were also examined, and in the Science Building was an exhibit of formaldehyde gas apparatus for disinfecting purposes. The U. S. Agricultural Experiment Station was also visited, where some curious experiments are in progress on the growth of plants.

The party then returned to the city on the special train.

WESTERN SOCIETY OF ENGINEERS.—At the meeting on April 20 there was an exceptionally large attendance of members to take part in a topical discussion on "Electrical, Pneumatic and Mechanical Power Transmission in Manufacturing Establishments." The discussion on electrical transmission was opened by Prof. D. C. Jackson, of the Engineering Department of the University of Wisconsin, who referred to the flexibility, convenience and economy of electricity for power purposes. Mr. E. B. Clark, Electrical Engineer of the Illinois Steel Co., then presented the advantages of electric power in rolling mills and mentioned the following uses to which it is applied in the works of the Illinois Steel Co.: (1) Arc and incandescent lighting; (2) Series motors on traveling cranes, electric hoists and conveyors, furnace charging and drawing machines, table rollers, transfer cars, etc.; (3) Shunt motors operated continually; (4) Shunt motors operated intermittently, for lathes, shears, crushers, drills, pumps and other tools; (5) Incidental uses. This part of the subject was also discussed by Mr. Coster and Mr. H. M. Brinkerhoff.

The discussion on pneumatic transmission was opened by Mr. James F. Lewis, of the Rand Drill Co., who claimed that there are very few situations in which compressed air cannot be used to advantage. A number of letters were read presenting the efficiency and economy of using compressed air in railway shops, and the transfer of mail matter in pneumatic tubes in New York, Philadelphia and Boston was also referred to. Mr. C. W. Melcher, of the Ingersoll-Sergeant Drill Co., also presented a paper showing extensive application of compressed air to power transmission. The mechanical transmission was then discussed by Mr. H. J. Westover, of the firm of Sargeant & Lundy, who presented numerous figures of practical tests on power transmission direct to machines and by means of belting. Mr. Robert Ardell, of the Link-Belt Machinery Co., presented the subject of rope transmission, and hydraulic transmission of power was briefly referred to by Mr. Thomas T. Johnston, Asst. Chf. Engr. of the Chicago Drainage Canal, who referred specially to the recent advances in the design of water motors. The various papers gave rise to an extended discussion and several of them were illustrated by stereopticon views.

As the present quarters of the society have become too small to properly accommodate the meetings a considerable amount of additional space has been leased in the Monadnock Block, adjacent to the rooms now occupied.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng News.
Apr. 28.	Dock, West Point, N. Y. Advertised, Eng. News, Apr. 14 and 21.		Apr. 14
Apr. 28.	Oil or vapor lighting, Cleveland, O.		Apr. 7
Apr. 28.	Grading, etc., Cleveland, O.		Apr. 7
Apr. 28.	Main sewer, etc., Cleveland, O.		Apr. 7
Apr. 28.	Water tunnel, intake, etc., Cincinnati, O. Advertised, Eng. News, Mar. 31 to Apr. 21.		Mar. 31
Apr. 28.	School building, Indianapolis, Ind.		Apr. 21
Apr. 28.	Water meters (1,040), Chicago, Ill.		Apr. 21
Apr. 28.	Macadamizing, Brazil, Ind.		Apr. 21
Apr. 28.	Brick sewers, Providence, R. I. Advertised, Engineering News, Apr. 21.		Apr. 21
Apr. 28.	Water franchise, Cloverport, Ky.		Apr. 21
Apr. 28.	Electric plant, Grand Rapids, Mich. Advertised, Engineering News, Apr. 21.		Apr. 21
Apr. 28.	Pipe and brick sewers, Dayton, O.		Apr. 21
Apr. 28.	School building, Defiance, O.		Apr. 21
Apr. 28.	Electric plant or lighting, Brantford, Ont.		Apr. 21
Apr. 28.	Gutter paving blocks, Boston, Mass.		Apr. 28
Apr. 28.	Macadam road, Nantucket, Mass.		Apr. 28
Apr. 28.	Cedar paving (20,870 sq. yds.), Detroit, Mich.		Apr. 28
Apr. 29.	Asphalt paving, Saginaw, Mich.		Apr. 28
Apr. 29.	Improving Canal St., Grand Rapids, Mich.		Apr. 28
Apr. 29.	Sewer brick, Minneapolis, Minn.		Apr. 28
Apr. 29.	Sewer, Buffalo, N. Y.		Apr. 21
Apr. 29.	Plumbing, Millard, N. Y.		Apr. 21
Apr. 29.	Curbing, etc., Lynchburg, Va.		Apr. 21
Apr. 29.	Asphalt paving, Minneapolis, Minn.		Apr. 21
Apr. 29.	Paving, Buffalo, N. Y.		Apr. 21
Apr. 29.	Truss bridges (2), Troy, O.		Apr. 21
Apr. 29.	Bridge superstructure, Zanesville, O.		Apr. 21
Apr. 29.	Brick and pipe sewers, St. Louis, Mo.		Apr. 21
Apr. 29.	Sewers, Omaha, Neb.		Apr. 21
Apr. 29.	Mooring stones, Portland, Me.		Apr. 7
Apr. 29.	Stone, Cleveland, O.		Apr. 7
Apr. 29.	Cement sidewalks, Irvington, Ind.		Apr. 7
Apr. 29.	Electric wiring, Albany, N. Y.		Apr. 14
Apr. 29.	Trunk sewer, Cleveland, O.		Apr. 14
Apr. 29.	Asphalt paving, Minneapolis, Minn.		Apr. 14
Apr. 30.	Canal work, Cornwall, Ont.		Apr. 14
Apr. 30.	Pipe sewers, Boston, Mass.		Apr. 14
Apr. 30.	Sewers, Washington, D. C. Advertised, Engineering News, Apr. 14.		Apr. 14
Apr. 30.	Paving, Mahanoy City, Pa. Advertised, Eng. News, Apr. 14 and 21.		Apr. 14
Apr. 30.	Electric light plant, Superior, Wis.		Apr. 14
Apr. 30.	Bridge substructure, etc., Elmwood, O.		Apr. 14
Apr. 30.	Cast-iron floor, Boston, Mass.		Apr. 14
Apr. 30.	Plans for water-works, Cricklade, Eng.		Apr. 7
Apr. 30.	Repairing pavement, Washington, D. C. Advertised, Engineering News, April 7.		Apr. 7
Apr. 30.	Repairing dredge, Charleston, S. C. Advertised, Eng. News, Apr. 7 to 21.		Apr. 7
Apr. 30.	Town hall, Singapore, S. S.		Jan. 13
Apr. 30.	Surfacing road (6 miles), Milton, Mass. Advertised, Eng. News, Mar. 31 to Apr. 14.		Mar. 31
Apr. 30.	Macadamizing, Groton, Conn.		Apr. 21
Apr. 30.	Court house, Elk Point, S. Dak.		Apr. 21
Apr. 30.	Granite paving, New London, Conn.		Apr. 21
Apr. 30.	Grading, Asbury Park, N. J.		Apr. 21
Apr. 30.	Library building plans, Jersey City, N. J.		Apr. 21
Apr. 30.	Garbage disposal, etc., Detroit, Mich.		Apr. 21
Apr. 30.	Sewer pipe, North Adams, Mass.		Apr. 28
Apr. 30.	Asylum building, Talladeja, Ala.		Apr. 28
Apr. 30.	School buildings, Boston, Mass.		Apr. 28
Apr. 30.	Gutters, Keokuk, Ia.		Apr. 28
Apr. 30.	Concrete sidewalks, North Adams, Mass.		Apr. 28
Apr. 30.	Bridge, Huron, S. Dak.		Apr. 28
Apr. 30.	Pipe sewers, Boston, Mass.		Apr. 28
Apr. 30.	Sewer pipe, McKeesrock, Pa.		Apr. 28
May 1.	Water-works, Waterloo, N. Y. Advertised, Engineering News, Mar. 10.		Mar. 10
May 1.	Water-works, Seneca Falls, N. Y. Advertised, Engineering News, Mar. 10.		Mar. 10
May 1.	College building, Georgetown, Tex.		Apr. 21
May 1.	Plans for sewage disposal, Belper, Eng.		Dec. 16
May 1.	Cathedral, Memphis, Tenn.		Mar. 17
May 1.	Electric lighting, Sheboygan Falls, Wis.		Mar. 24
May 1.	Brick paving, Weston, W. Va.		Apr. 14
May 2.	Arc lighting (240 lights), Elmira, N. Y. Advertised, Engineering News, Apr. 14.		Apr. 14
May 2.	Water pipe, hydrants, etc., Lebanon, Pa. Advertised, Engineering News, Apr. 14.		Apr. 14
May 2.	Asphalt or brick paving, Geneva, N. Y. Advertised, Eng. New, Apr. 7 to 28.		Apr. 7
May 2.	Paving, Rockford, Ill. Advertised, Engineering News, Apr. 21.		Apr. 21
May 2.	Telephone service, New York, N. Y.		Apr. 21
May 2.	Water pipe, Mitchell, S. Dak.		Apr. 21
May 2.	Water mains, Corning, N. Y. Advertised, Engineering News, Apr. 21.		Apr. 21
May 2.	Steel bridges (2), Brantford, Ont.		Apr. 21
May 2.	Stone arch, Elyria, O.		Apr. 21
May 2.	Electric lighting, Pinckney, Mich.		Apr. 21
May 2.	Bridge, Lake Belt, Minn.		Apr. 28
May 2.	Road work, North Haven, Conn.		Apr. 28
May 2.	Belgian block paving, Jersey City, N. J.		Apr. 28
May 2.	Brick (600,000), Uniontown, Pa.		Apr. 28
May 2.	Brick (1,000,000), Louisville, Ky.		Apr. 28
May 2.	Capitol bonds, Prescott, Ariz.		Apr. 28
May 2.	Garbage collection, etc., Reading, Pa.		Apr. 28
May 2.	Boiler flues, Troy, N. Y.		Apr. 28
May 2.	Stone and brick, Philadelphia, Pa.		Apr. 28
May 2.	Improving Lienass Pl., Jersey City, N. J.		Apr. 28
May 2.	Court house, Alexandria, Va.		Apr. 28
May 2.	Electric current, New York, N. Y.		Apr. 28
May 2.	Stand-pipe, Orange, Tex.		Apr. 28
May 2.	Pumping plant, etc., Santa Ana, Cal.		Apr. 28
May 3.	Court house, Washington, Pa.		Apr. 28
May 3.	Pipe sewers, etc., Rochester, N. Y.		Apr. 28
May 3.	Hospital building, Winnipeg, Man.		Apr. 28
May 3.	Bridge, Carrollton, Ga.		Apr. 28
May 3.	Naval supplies, New York, N. Y.		Apr. 28
May 3.	Bonds ($24,000), Crookston, Minn.		Apr. 28
May 3.	Engine and boilers (3), Boston, Mass.		Apr. 28
May 3.	Water pipe, Albany, N. Y.		Apr. 28
May 3.	Water bonds, Summit, Miss.		Apr. 28
May 3.	Heating, etc., Geneseo, N. Y.		Apr. 28
May 3.	Brick paving, etc., Troy, N. Y.		Apr. 28
May 3.	Street railway franchise, Canton, O.		Apr. 21
May 3.	Bridge (200-ft. span), New Whatcom, Wash.		Apr. 21
May 3.	Sewers, Yreka, Cal.		Apr. 21
May 3.	Jail, etc., Windom, Minn.		Apr. 21
May 3.	Jail, Dalton, Ga.		Mar. 17
May 3.	Steel cells (4), Visalia, Cal.		Mar. 3
May 3.	Steel bridge and abutments, St. Mary, O.		Apr. 14
May 4.	Bridge, Meadow Grove, Neb.		Apr. 14
May 4.	Bridge, Leavenworth, Kan.		Apr. 21
May 4.	Water-works, Grove City, Pa. Advertised, Engineering News, Apr. 21.		Apr. 21
May 4.	Constructing road, Clinton, Mass. Advertised, Engineering News, Apr. 21.		Apr. 21
May 4.	Temporary bridge, New Baltimore, O.		Apr. 14
May 4.	Pile bridges (2), Fargo, N. Dak.		Apr. 28
May 4.	Sidewalks, Columbus, Ind.		Apr. 28
May 4.	Bridge, Williams, Cal.		Apr. 28
May 5.	Paving, Buffalo, N. Y.		Apr. 28
May 5.	Easement, Sacramento, Cal.		Apr. 28
May 5.	Branch sewers, Philadelphia, Pa.		Apr. 28
May 5.	Macadamizing, Cincinnati, O.		Apr. 28
May 5.	Iron bridge, Monticello, Ind.		Apr. 28
May 5.	Chapel, Jackson, Mich.		Apr. 28
May 5.	Electric light plant, Grand Rapids, Mich. Advertised, Engineering News, Apr. 21.		Apr. 28
May 5.	Steel bridge, Jersey City, N. J.		Apr. 21
May 5.	Hospital building, Morris Plains, N. J.		Apr. 21
May 5.	School building, Millville, Utah.		Apr. 21
May 5.	Grading, paving, etc., Cameron, W. Va.		Apr. 21
May 5.	Steam heating, etc., Buffalo, N. Y.		Apr. 14
May 5.	Electric wiring, etc., Buffalo, N. Y.		Apr. 14
May 5.	Sewer bonds, East Cleveland, O.		Apr. 14
May 5.	Brick paving (47,000 sq. yds.), Tampa, Fla. Advertised, Eng. New, Apr. 7 to 28.		Apr. 7
May 6.	Dredging, Connecticut River, Conn. Advertised, Eng. New, Apr. 7 to 28.		Apr. 7
May 6.	Macadamizing, Scottsburg, Ind.		Apr. 21
May 6.	Water-works, Calhoun, Ga.		Apr. 21
May 6.	Sewers, Norristown, Pa.		Apr. 21
May 6.	Plaster models, etc., Omaha, Neb.		Apr. 21
May 6.	Macadam (26 miles), Scottsburg, Ind.		Apr. 28
May 6.	Pipe sewers, Cleveland, O.		Apr. 28
May 6.	Reservoir, Boston, Mass. Advertised, Engineering News, Apr. 28.		Apr. 28
May 6.	Bridge, Aiken, S. C.		Apr. 28
May 7.	Improving road, Stamford, Conn.		Apr. 28
May 7.	Bridges (8), Sherbrooke, N. Dak.		Apr. 28
May 7.	Macadamizing (16½ miles), Kenton, O.		Apr. 28
May 7.	Macadamizing, Monticello, Ind.		Apr. 28
May 7.	Electric light plant, Boston, Mass.		Apr. 28
May 7.	Lead pipe, etc., Syracuse, N. Y.		Apr. 28
May 7.	Asphalt block paving, Alliance, O.		Apr. 21
May 7.	Building substructure, Cheyenne, Wyo.		Apr. 14
May 9.	Water bonds ($300,000), Cleveland, O.		Apr. 14
May 9.	Sidewalk and curbing, (1 m.), Lafayette, Ind.		Apr. 7
May 9.	Brick paving, Hornellsville, N. Y. Advertised, Eng. News, Apr. 21 and 28.		Apr. 21
May 9.	County road, Huntington, W. Va.		Apr. 21
May 9.	School building, Scranton, Pa.		Apr. 28
May 9.	Laying water pipe, Boston, Mass. Advertised, Engineering News, Apr. 28.		Apr. 28
May 9.	Sidewalks, Youngstown, O.		Apr. 28
May 10.	Paving, etc., Mount Vernon, N. Y.		Apr. 28
May 10.	Hotel building, Centerville, Ala.		Apr. 28
May 10.	School building, Monticello, Ind. Advertised, Engineering News, Apr. 28.		Apr. 28
May 10.	Stone dam, Mazeppa, Minn.		Apr. 28
May 10.	Brick, New Orleans, La.		Apr. 21

May 10. Levee (30 miles), Memphis, Tenn. .....Mar. 31
May 11. County bridge, Gonzales, Tex. .....Mar. 3
May 11. Grading, etc., Cincinnati, O. .....Apr. 21
May 11. Hospital buildings, Massillon, O. .....Apr. 21
May 11. Street improvements, Hoboken, N. J. .....Apr. 21
May 11. Hospital building, Detroit, Mich. .....Apr. 21
May 11. Bridge bonds, Bowling Green, O. .....Apr. 28
May 11. Macadam road, Wethersfield, Conn. .....Apr. 23
May 11. Heating, Ida Grove, Ia. .....Apr. 28
May 12. School building, Ida Grove, Ia. .....Apr. 28
May 12. Sewer pipe (50,000 ft.), Quincy, Mass. ....Apr. 28
Advertised, Engineering News, Apr. 28.
May 12. Iron superstructure, Millwood, O. .....Apr. 28
May 12. Pipe sewers, (14,200 ft.), Quincy, Mass. ....Apr. 28
Advertised, Engineering News, Apr. 28.
May 12. Bridge superstructure, Millwood, O. .....Apr. 21
May 12. Court house, Sonora, Cal. .....Apr. 21
May 12. Water pipe, etc. (21,000 ft.), Spokane, Wash. Apr. 21
May 12. Bridge, Spokane, Wash. .....Apr. 21
May 12. Sewers, Cleveland, O. .....Apr. 21
May 12. Mortar battery, Boston, Mass. .....Apr. 14
Advertised, Eng. News, Apr. 14 to May 5.
May 12. Iron bridge, Shreveport, La. .....Apr. 14
May 12. Iron bridge (324 ft.), Easton, Md. .....Apr. 14
May 14. Repairing pavements, etc., Erie, Pa. .....Apr. 14
May 14. Keepers' dwelling, Oswego, N. Y. .....Apr. 14
Advertised, Eng. News, Apr. 14 and 21.
May 14. Street bonds, Canton, O. .....Apr. 21
May 14. Garbage disposal, etc., Newport News, Va. ..Apr. 21
May 14. Asphalt paving, etc., Cleveland, O. .....Apr. 21
May 14. Mortar battery, Boston, Mass. .....Apr. 21
Advertised, Eng. News, Apr. 21 to May 5.
May 14. Improving road, Cincinnati, O. .....Apr. 21
May 14. Macadamizing, Monticello, Ind. .....Apr. 28
May 14. Bridge approaches (4), Cincinnati, O. .....Apr. 28
May 15. Laying water pipe, etc., Hallowell, Me. ....Apr. 14
Advertised, Engineering News, Apr. 14.
May 16. Library building, Newark, N. J. .....Apr. 21
May 16. Street bonds ($200,000), Camden, N. J. .....Apr. 28
May 16. Street bonds ($20,000), Alliance, O. .....Apr. 28
May 16. Road bonds ($40,000), Brazil, Ind. .....Apr. 28
May 16. Bridge, Sandusky, O. .....Apr. 28
May 17. Water line franchise, Los Angeles, Cal. ....Apr. 28
May 17. Pumping machinery, Albany, N. Y. .....Apr. 28
Advertised, Eng. News, Apr. 28 and May 5.
May 18. Extending water-works, etc., Prescott, Ariz. Mar. 31
May 18. Bridges (3), Chicago, Ill. .....Mar. 31
Advertised, Eng. News, Mar. 31 to Apr. 21.
May 18. Bridge, Chicago, Ill. .....Apr. 7
Advertised, Eng. News, Apr. 7 and 14.
May 18. Sewers, Prescott, Ariz. .....Mar. 31
May 18. Bridge, Forman, N. Dak. .....Apr. 28
May 18. Laying water pipe, Marshall, Mich. .....Apr. 28
May 20. Railway, East Las Vegas, N. Mex. .....Apr. 28
May 20. Court house, Parsons, W. Va. .....Apr. 21
May 20. Water bonds ($12,000), St. Johnsville, N. Y. .Apr. 14
May 21. Wooden hull, Montgomery, Ala. .....Apr. 21
Advertised, Eng. News, Apr. 21 to May 12.
May 21. Culvert and bridges (2), Cincinnati, O. ....Apr. 28
May 21. Miscellaneous supplies, West Point, N. Y. ..Apr. 28
May 23. Paving, East Liverpool, O. .....Apr. 28
May 23. Sewerage system, Marion, Ind. .....Apr. 28
May 24. Paving, Cleveland, O. .....Apr. 28
May 25. Water franchise, Ridgewood, N. J. .....Mar. 24
Advertised, Eng. News, Mar. 24 to Apr. 28.
May 27. Steel-hulled tenders (5), St. Louis, Mo. ...Apr. 28
Advertised, Eng. News, Apr. 28 to May 19.
May 30. Factory building, etc., Des Moines, Ia. ....Apr. 14
May 31. Electric light plant, Malvern, Ark. .....Apr. 7
June 1. Cofferdam, masonry, etc., Chicago, Ill. ....Apr. 7
June 1. Electric railway, Zurich, Switzerland. .....Mar. 10
June 1. By-pass, etc., Chicago, Ill. .....Apr. 21
Advertised, Eng. News, Apr. 21 and 28.
June 1. Court house, Monticello, Ky. .....Apr. 21
June 1. Arc lights (50), Columbia, Tenn. .....Apr. 28
June 2. Electric lighting, Natchez, Miss. .....Apr. 21
June 6. Electric franchise, Gridley, Cal. .....Apr. 21
June 7. Arc lights (50), Greenville, Miss. .....Apr. 28
June 8. County road, Bozeman, Mont. .....Apr. 21
June 24. Electric plant, Hawthorne, Australia. .....Apr. 14
July 1 Water power, Madras, India .....Oct. 28
July 1. Plans for sewer system, Formby, Eng. ....Apr. 7
July 1. Plans for sewer system, Cohoes, N. Y. ....Apr. 28
Advertised, Eng. News, Apr. 28 and May 5.
Aug. 31. Custom house, Guayquil, Ecuador. .....Apr. 21
Sept. 12. Hospital plans, San Francisco, Cal. .....Mar. 24
Oct. 24. Markets, etc., Belem, Brazil .....Apr. 28
No date. Water-works and sewers, Ft. Majave, Ariz. .Apr. 28
" . Brick paving, Binghamton, N. Y. .....Apr. 28
" . Power plant, Sault Ste. Marie, Mich. .....Apr. 14
Advertised, Eng. News, Apr. 14 and 28.

RAILWAYS.

ALAMAGORDA & SACRAMENTO.—Reports state that Geo. S. Good & Co., of Lockhaven, Pa., have been awarded the contract for constructing the proposed branch of the El Paso & Northeastern in New Mexico, to be about 20 miles in length. J. A. Eddy, of El Paso, N. Mex., is interested.

ARKANSAS & OKLAHOMA.—J. M. Bayliss, Pres., Bentonville, Ark., informs us that this company has absorbed the Bentonville Ry. Co., operating between Bentonville and Rogers, Ark., and that an 18-mile extension will be constructed. One small bridge will be built and several stations erected.

ARKANSAS MIDLAND.—John J. Horner, Gen. Mgr., Helena, Ark., informs us that no further improvements will be made along this line than the erection of two new station buildings.

ATCHISON, TOPEKA & SANTA FE.—J. J. Frey, Gen. Mgr., Topeka, Kan., informs us that this company is building a second main line from Emporia to Sterry, six miles, and from Evans to Cedar Grove, Kan., 14 miles. Contracts for the grading have already been let, and the work is now being pushed to completion. What few bridges will be built will be erected by the company direct, except the masonry work, which has been contracted for by L. W. Lewis, of Emporia. The lines will be laid with 75-lb. steel, and the bridges will consist of arch culverts and iron spans.

BRIDGTON & SACO RIVER.—Wm. F. Perry, Pres., Bridgton, Me., informs us that bids will be received about May 1 for the construction of a 5-mile extension of this line, operating between Bridgton and Bridgton Junction, Me., 16 miles. Four new bridges will have to be erected, also two stations, car, engine and freight houses and a yard at the new terminus.

CANADA EASTERN.—Thomas Hoben, Supt., Gibson, New Brunswick, informs us that this company has recently purchased ten platform cars, and that ten more will probably be ordered.

CAROLINA & NORTH WESTERN.—L. T. Nichols, Supt., Chester, S. C., informs us that this company has contracted for the construction of ten miles of track between Newton and Hickory, N. C., and that it is expected to complete work on the same by Sept. 1. Several sidings will be put in, and several minor changes made to the main line. All the proposed work, except the extension, will be done by the company.

CHICAGO & KALAMAZOO.—M. H. Lane, Pres. and Gen. Mgr., Kalamazoo, Mich., informs us that it is expected to extend this line 1½ to 2 miles more this year.

CHICAGO, INDIANAPOLIS & LOUISVILLE.—F. Hall, Ch. Engr., Chicago, Ill., informs us that a change on the line between Clear Creek and Harrodsburg, Ind., is contemplated, at an estimated cost of $100,000, and that propositions will probably be called for in 30 days. A change of the grade from 83 ft. to 30 ft. a mile is also in view.

ERIE.—C. W. Buchholz, Ch. Engr., 21 Cortlandt St., New York, informs us that the improvements proposed or under way on this railway include changes of alinement at Mahwah, N. J., 3 miles, and at Goshen, N. Y., 3 3-10 miles; new passenger stations at Soho and Bloomfield, N. J., on the New York & Greenwood Lake R. R.; a flour house at Buffalo, N. Y.; coaling station at Jersey City; and track elevation at Jersey City, N. J., for which the notice of award of contract was published in our last issue. Bids have been received for all the above contemplated work, except for that at Goshen.

ELIZABETHTOWN MINERAL.—This company was incorporated in Tennessee, April 12, to construct a railway from a point in Shady Valley, Johnson county, to Elizabethton, Tenn. The incorporators are: J. N. Adams, Henry G. Adcock, R. T. Callohill, Joseph Elliott and J. P. Elliott.

GREAT NORTHERN.—John F. Stevens, Ch. Engr., St. Paul, Minn., informs us that A. Guthrie & Co., of St. Paul, are now at work on the new branch of the Eastern Minnesota division of this railway from Fosston to Deer River, 98 miles, and from Cloquet, Minn., to the Nemadji River bridge, 28 miles. It is reported that the work will be completed by July 15. Mr. Guthrie is also said to have a contract for about 1,000,000 cu. yds. of earth excavation on a proposed extension of the Great Northern from Larimore, N. Dak., to Havre, Mont.; work is expected to begin at once.

KANSAS, OKLAHOMA CENTRAL & SOUTHWESTERN.—J. H. Bartles, Pres., Bartlesville, Ind. Ter., informs us that this company proposes to build a steam railway connecting Cherryvale, Kan., and Vernon, Tex., a distance of about 350 miles. A part of the route has been surveyed and capital for the same secured, and a contract for the construction work made with the Toledo Construction Co., of Toledo, O., and Bartlesville. F. B. Dallon, Ch. Engr., Independence, Kan.

LAKE BENNETT & KLONDIKE RY. & TRAMWAY.—This company was granted a charter by the Canadian House of Commons, April 22. It is proposed to build a railway from the north end of Marsh Lake, in the Northwest Territories, to a northeasterly point on the Hootalinqua River, a distance of about 35 miles. The company is also said to be allowed to operate a railway to run on either side of Miles Canyon and White Horse Rapids, and a tramway from a point on the north end of Marsh Lake in a northeasterly direction to a point on the Hootalinqua River.

LAS VEGAS, MORA & TAOS.—Robert L. Ross., Secy., East Las Vegas, N. Mex., writes us that contracts for the construction of this railway have not yet been awarded, pending completion of survey. Mention of the proposed work was made in our issue of April 14.

MEMPHIS & SUNFLOWER RIVER.—Geo. T. Hedges, Cedar Rapids, Ia., informs us that nothing has yet been done towards the proposed reorganization of this company, noted in our issue of April 14, except the purchase of the Boyle & Sunflower River R. R., 19 miles in length.

MEMPHIS, NEW ORLEANS & TEXAS.—This company has been incorporated, according to reports, with a capital stock of $3,500,000, to construct a line from Memphis to New Orleans along the western bank of the Mississippi, a distance of 500 miles. W. A. Percy, E. L. Philipps and H. L. Armstrong, of Memphis, Tenn., are said to be interested.

NEW MEXICO & WESTERN.—G. M. Latimer, Pres., East Las Vegas, N. Mex., writes us that contracts will be received about May 20 for the construction of this proposed railway from Maxwell City to Taos, via Cimarron, Elizabethtown and Baldy, N. Mex., 100 miles. Surveys have been completed and the necessary capital secured. J. B. Latimer, Ch. Engr., East Las Vegas.

OREGON SHORT LINE.—This company has filed articles of incorporation in Idaho, with a capital stock of $60,000,000. The incorporators are: Oliver Ames, Easton, Mass.; T. J. Coolidge, Jr., Manchester, Mass.; Ellery Anderson, Walter G. Oakman, F. S. Bangs, William E. Glynn, of New York; T. R. Jones, Salt Lake, Utah; Gardner M. Lant, Cambridge, Mass.; Oliver Mink, Brookline, Mass.; Alexander E. Orr, Brooklyn, N. Y.; Charles H. Coster, Tweeds, N. Y.

PLANTERS' TERMINAL.—Edwin A. Turner, Van Alstyne, Tex., informs us that nothing has yet been done in the way of surveys or right of way for the proposed railway of this new company. Part of the capital has been secured, but contracts will not be let until further matters are settled. The charter authorizes the construction of a line from Van Alstyne to Howe and Sherman, Tex., 18 miles, which will parallel the Houston & Texas Central R. R. It is expected to lay 56-lb. rail. Pres., Burton R. Stare, Sherman, Tex.

TEXAS & LOUISIANA.—Reports state that this company has been chartered to construct a line connecting River Spur, La., and Natchez, Miss. It is said that about 30 miles of new railway will have to be built. Pres. and Gen. Mgr., F. F. Rogers, Alexandria, La.

VALDOSTA & ALBANY.—J. A. Dasher, Jr., Pres., Valdosta, Ga., writes us that about one-half of this proposed line has been surveyed and right of way obtained; capital for construction has not yet been secured. It is expected to build as soon as practicable. The company was incorporated April 4 and proposes to construct a line from Valdosta, via Morven and Moultrie, Ga., a distance of 70 miles. Z. R. Hutchinson, Ch. Engr., Valdosta.

STREET AND ELECTRIC RAILWAYS.

MILFORD, MASS.—The Grafton, Upton & Milford St. Ry. Co. has been organized, with a capital stock of $100,000, to build a line from Milford to Grafton Center, with a branch from West Upton to Farnumsville, on the Blackstone Valley Ry. The length will be 12 miles and the gage 4.85 ft. The directors are said to be Louis B. Wheildon of Boston; B. A. Jourdan, of Upton; A. A. Jenkins, H. D. Bowker and W. D. Leahy, of Milford, and others.

WALTHAM, MASS.—F. G. S. Henderson, Supt. Newton St. Ry., West Newton, Mass., informs us that the company has declined to accept the franchise offered by this town, on account of the severe conditions attached thereto.

BUFFALO, N. Y.—Geo. A. Ricker, Ch. Engr. Buffalo Valley Ry., 704 Ellicott Square, Buffalo, informs us that he is at work upon the estimates for this proposed electric railway from Buffalo to Strykersville, N. Y., 27 miles, as noted in our issue of March 31. Pres., E. C. Felton, Steelton, Pa.

MECHANICVILLE, N. Y.—It is reported that Madigan & Warner have been awarded the contract for laying the track for the proposed electric railway between Mechanicville and Waterford, and that work on the necessary culverts has been commenced.

SYRACUSE, N. Y.—The Syracuse, Skaneateles & Moravia R. R. Co. was incorporated, April 18, with a capital stock of $1,000,000. It is proposed to construct an electric railway from Syracuse to Moravia, N. Y., a distance of 40 miles. The directors are: Wing T. Parker, Thomas W. Downing, John Andrews and Joseph Parker, of Moravia; Henry J. Hibbard, of Skaneateles, N. Y.

MONTCLAIR, N. J.—Reports state that the town council passed an ordinance, April 20, granting a franchise to the North Jersey St. Ry. Co. for the construction and operation of an electric street railway to Verona. It is said that work on the new line will begin at once. Pres., J. K. Corbiere, 28 Nassau St., New York.

KUTZTOWN, PA.—The Allentown & Kutztown Traction Co, was incorporated, April 25, with a capital stock of $10,000, with $1,000 paid in, to supply motive power to street railways in Kutztown. The incorporators are: George Misch, Treas., 827 Race St., Philadelphia, Pa.; Henry J. Schmick and Peter L. Diener, of Hamburg, Pa.

McKEESPORT, PA.—T. H. Bowman, Pres. Highland Grove Traction Co., of McKeesport, writes us that the surveys have been made and the right of way is being obtained for this proposed electric line from McKeesport to Highland Grove and East Pittsburg, a distance of four miles. The capital for construction has been secured, and it is expected to award contracts as soon as all the right of way is obtained. The incorporation of this company was noted in our last issue.

PITTSBURG, PA.—We are informed that ordinances are now before the councils of the various municipalities granting franchises to the Virginia Ave. St. Ry. Co., which was incorporated April 18, to construct three miles of electric railway from Allentown to Pittsburg, via Mount Washington and West Liberty, Pa. The line will enter Pittsburg over the tracks of the West End Traction Co., via Woodville Ave., Carson St. and Point Bridge. The capital is assured, and contracts will be let by June 1. Pres. R. W. Gibbs, 90 Arch St., Allegheny, Pa.; Ch. Engr., J. F. McCartney, Noble Ave., Pittsburg.—It is reported that the traction lines to West End, Crafton, Carnegie, Neville Island and Coraopolis have been reorganized under the name of the West End Traction Co. A line will be built to Banksville, and a number of extensions will be made. The Neville Island line will be double-tracked and new rolling stock will be purchased and a new power house built; estimated cost, $500,000. The directors are: John Burns, Pres.; J. C. Reilly, J. D. Callery, William V. Callery and Thomas S. Bigelow.

SCHUYLKILL HAVEN, PA.—Franklin Ingram, Secy. Schuylkill Haven & Orwigsburg St. Ry. Co., 1001 Chestnue St., Philadelphia, Pa., informs us that surveys have been made for this proposed 6-mile line between the towns named, and that the contract for construction has been let to the Fairmount Construction Co., of Philadelphia. The work is to be finished by July 1. The incorporation of this company, on March 5, was noted in our issue of March 10.

WINTON, PA.—The Seymour St. Ry. Co. was incorporated, April 25, with a capital stock of $30,000, to operate an electric street railway at Winton. The incorporators are: Pres., John F. Cummings; James Bell and Geo. E. Dando, of Winton; C. P. O'Malley, Scranton, Pa.; W. G. Robertson, Dunmore, Pa.

BALTIMORE, MD.—The Maryland Traction Co. has been incorporated, with a capital stock of $750,000, to operate an electric line under the franchise formerly owned by the Columbia & Maryland Ry. Co. The directors are: Thos. J. Hayward, H. A. Parr, Robt. S. Carswell, William Boehler and Ed. P. Hill, all of Baltimore.

NEWPORT NEWS, VA.—The Newport News, Hampton & Old Point Ry. & Electric Ry. was granted a franchise, April 19, for the construction of a line through this place, being part of a system which is expected to be operated between Newport News and Old Point Comfort, 10 miles. Pres., W. J. Payne, Richmond, Va.

MYERSVILLE, MD.—Cyrus F. Flook, Pres. Myersville & Catoctin Valley Ry. Co., Frederick, Md., informs us that the surveys for the portion of this proposed electric railway from Middletown to Myersville is about one-third completed. The necessary capital has been secured, and the contract let to Douglass Bros., of Millerstown, Pa., who will begin work May 1. On the completion of this line it is expected to organize another company to construct a road connecting Myersville with Hagerstown and Frederick, 14 miles. This will be on a direct line from Harrisburg, Pa., to Washington, D. C. M. C. Lemley, Ch. Engr., Baltimore, Md.

WASHINGTON, D. C.—It is announced that work will shortly begin on changing the U St. line from the Love to the General Electric system. The Love system is said to have given good satisfaction, but it is the wish of the Capital Traction Co. to have its system so arranged as to allow the cars to be exchanged. The overhead trolley from the Boundary to the Rock Creek Bridge will also be replaced by the underground electric system.

CHATTANOOGA, TENN.—J. T. Crass, Pres., Lookout Incline & Lula Lake Ry. Co., of Chattanooga, informs us that this line runs from St. Elmo station, at the base of Lookout Mountain, to "Lookout Inn," on the summit of the mountain, by a cable line, and is now being extended on top of the mountain, with an electric line, from Point Rock to Ross Ave., a distance of three miles. Later on it will be extended to Lula Lake and Rock City, a distance of seven miles. Contracts have been let for all work, and it will be completed within three weeks. This is the only line running to the top of the mountain. W. A. Rollins, Ch. Engr., Chattanooga.

CHAGRIN FALLS, O.—The Chagrin Falls & Eastern Electric Ry. Co., was incorporated, April 21, with a capital stock of $300,000, to build an electric line from Chagrin Falls to Burton. The incorporators are: F. M. Stearns, John E. Ensign, C. E. Morganthaler, Jay E. Latimer, William Prescott, R. L. Palmer and H. J. Coe.

GROVE CITY, O.—Press reports from Columbus, O., state that Adam T. Grant has been granted a franchise by the county commissioners to construct an electric railway from Green Lawn Cemetery, Columbus, to Grove City, along the Harrisburg Pike.

MARION, IND.—It is reported that the Marion City Ry. Co., which has an electric line running from Marion to Jonesboro, made a contract, April 18, with the Union Traction Co., of Anderson, having a line running from Alexandria, by which the two companies will make a connection between Alexandria and Jonesboro by a line from Marion to Anderson and from Alexandria to Elwood. The Clodfelter Electric Ry., which is being built from Marion to Indianapolis, will run through Jonesboro, Fairmount, Summitville, Alexandria and Elwood, parallel to this road.

REDKEY, IND.—E. E. Dubois, of Muncie, Ind., is said to have secured a franchise to build an electric street railway from Dunkirk to this city, and thence to Camden. Work is expected to commence at once.

SAGINAW, MICH.—Thick & Frink, of Detroit, Mich., have been awarded the contract for constructing the road-bed and bridges of the proposed Saginaw Suburban Ry. The northern terminus at present will be at Perkins St., where grading is to be commenced, and from that point the line is to run southeast to the towns of Frankenmuth, Clio and Flint. It is expected to have the work completed in about five weeks.

CHICAGO, ILL.—The supreme court of Illinois has handed down a decision which declares valid the ordinance passed by the city council, Jan. 13, 1896, granting a franchise to the General Electric Ry. Co. to operate a railway on Custom House and Plymouth Places, from Jackson to 14th St. and thence south on Dearborn to 37th St.

OSHKOSH, WIS.—It is reported that the Falk Mfg. Co., of Milwaukee, Wis., has been awarded the contract to extend the line of the Citizens' Traction Co. to Summer Park.

OMAHA, NEB.—The Omaha St. Ry. Co. has been authorized to make certain proposed extensions and improvements to its system, in order to provide accommodation for those visiting the Exposition grounds. W. A. Smith, Gen. Mgr.

ST. LOUIS, MO.—Reports state that R. N. Snyder, of Kansas City, Mo., has been awarded a contract for the construction of a street railway in this city.

LOS ANGELES, CAL.—The board of supervisors granted a franchise to the San Gabriel Traction Co., April 13, at its bid of $100. A communication from Walter S. Maxwell, Pres., Los Angeles, regarding the proposed electric railway, may be found in our issue of March 31.

ELECTRIC LIGHT AND POWER.

DOVER, N. H.—It is stated that surveys are being made for a new power house for the United Gas & Electric Co. It is to be in operation by Aug. 1. A. D. Richmond, Supt., writes us that no contracts have yet been made. Des. Engr., Sheaff & Jaastad, 85 Water St., Boston.

HINESBURG, VT.—A village meeting was called for April 25 to vote on the question of an electric light plant. It is stated that options upon water privileges have already been secured by the village for such a plant. E. N. Sanctuary, Engr., can probably give information. Andrews Bros., H. M. Hull or C. J. Carpenter may be interested.

WATERBURY, VT.—The Bolton Falls Electric Co., recently incorporated with a capital stock of $75,000, is ready to receive bids for constructing the proposed plant; the work to be commenced within 30 days. Pres., G. E. Moody; Vice-Pres., C. C. Warren, Waterbury; Mgr., G. H. Almon, Montpelier, Vt.

WINOOSKI, VT.—A. J. Stevens, of Edward & Stevens, has submitted a proposition to sell half of the firm's water power to the citizens of this place. A company will probably be organized.

BOSTON, MASS.—Bids are asked until May 7 for furnishing the materials and for installing a plant in the jail yard of the house of correction at East Cambridge. Arch., O. W. Cutter, 85 State St., Boston; Chn. Comrs., L. S. Gould, East Cambridge.

WOBURN, MASS.—The Woburn Electric Light, Heat & Power Co. has been granted permission to increase its capital stock from $100,000 to $180,000. It is stated that a new plant will be built at once. L. R. Wallis, Supt. and Mgr.

CHARLOTTE, N. Y.—At the election, May 4, this place will vote on the question of issuing $10,000 in bonds for a plant and $25,000 in bonds for water-works.

JAMAICA (L. I.), N. Y.—The New York & Queens Light & Power Co. of Flushing has filed a mortgage on its plant for $250,000. It is said that $100,000 will be used to pay certain bonds and $150,000 for improving and extending the plant in Flushing, College Point and Whitestone. Pres., David Master; Secy., H. T. Jackson.

NEW YORK, N. Y.—Bids are asked until May 2 for furnishing the city prison with electric current. F. J. Lantry, Comr., 148 E. 20th St.

ONEONTA, N. Y.—O. A. Miller, Engr. Oneonta Electric Water Power Co., 291 Main St., writes us that bids will be received in about 20 days for constructing the proposed plant to cost about $40,000. There will be required water wheels of 400 HP., overhead wire, machinery, etc.

SANDY HILL, N. Y.—J. E. Derrick, Sandy Hill, writes us that a company will be organized at once to construct the proposed plant to be operated under a franchise granted to J. E. Derrick. Contracts will be made for an entire plant and lines.

WHITE PLAINS, N. Y.—The Dover Electric Light & Power Co. has been awarded the contract for lighting the streets for three years, beginning in November. A plant with a capacity of 25 arc and 285 incandescent lights will be built. Adolph Reimer, Secy. and Treas.

ATLANTIC CITY, N. J.—John H. Rothermel, of Reading, Pa., has been awarded the contract for lighting the city with arc lights for five years at $105.85 a year. A plant is to be built in 90 days. Jos. E. Lingerman, Chn. Com.

SELLERSVILLE, PA.—W. J. Zam, Borough Clk., writes us that the question of constructing a plant has not yet been formally submitted to the council.

WILKES BARRE, PA.—Bids were received April 26 for lighting this city for one, three or five years. Luke French, Chn. Com.

HARPER'S FERRY, W. VA.—J. C. Hanger and R. F. Thompson, of Pennsylvania, were here last week with a view of purchasing the power of the Harper's Ferry Paper Co. at Harper's Ferry, to establish a plant to light this place, Charlestown, and other towns in Jefferson county. The mill has 5,000 HP.

ALBANY, GA.—This place voted April 18 to issue $25,000 in 5% 20-year gold bonds to purchase the plant of the Albany Edison Illuminating Co. Arc lights will be added by the council.

COLUMBUS, GA.—The Columbus Power Co. will let the contract at once for building a power dam at Lover's Leap, at a cost of about $100,000. Work will begin at once, according to reports. President Comer, Columbus, Ga., or H. V. Hardaway, C. E., Tuscaloosa, Ala., may be addressed.

ARCADIA, FLA.—The question of building a plant and water-works is being considered. J. L. Jones, Mayor.

CRYSTAL SPRING, MISS.—Walter G. Kirkpatrick, Jackson, Miss., is preparing plans, etc., for a plant and water-works. The aldermen are negotiating for the sale of the bonds.

GREENVILLE, MISS.—Bids are asked until June 7 for furnishing 50 arc lights of 2,000 c. p., and a number of incandescent lights. J. M. Lee, Cy. Clk.

COLUMBIA, TENN.—Bids are asked until June 1 for furnishing about 50 arc lights of 1,200 c. p. for a period of 10 years. Recdr., E. E. Erwin; Mayor, E. Yoest; Chn. Com., B. F. Davis.

COLUMBUS, O.—The sinking fund commission will ask for new bids at once for the purchase of $68,000 of 30-year 4% electric light plant bonds; those being received April 13 having been rejected.

RICHWOOD, O.—S. D. Evans, Clk., writes us that this place voted April 18 against issuing bonds for a municipal plant.

WELLINGTON, O.—B. J. Ashley, Old Colony Bldg., Chicago, is preparing plans and specifications for a plant and water-works. The property formerly owned by the Warwick Electrical Mfg. Co. has been purchased by the town, and will be remodeled to contain the new plant, which in part will consist of a new 100-HP. engine, 60 to 70 arc light dynamos, 1,000-light alternator, two new 80-HP. boilers, stand-pipe, pump, etc. The machinery already in the building will be used as far as practicable.

BRISTOL, IND.—An election will soon be held to vote on the question of issuing bonds for a plant and water-works.

ELKHART, IND.—A. M. Barron, Mgr. and Des. Engr. Home Electric Light & Power Co., writes us that bids will soon be asked for building an addition to the plant at a cost of $100,000. The change will be made gradually from the present small units to larger units. Orders have been placed for furnishing the machinery.

CASS CITY, MICH.—J. H. Shiffler, Pres., writes us that this city will contract this season to put in a plant. The plant will have capacity for 24 arc and 280 incandescent lights; estimated cost, $4,000.

DECATUR, MICH.—A committee has been appointed to investigate the cost of constructing a plant. An election will probably soon be held to vote on the question.

FLINT, MICH.—Judge Wisner on April 19 issued an order authorizing Clarence Tinker, Receiver of the State Bank of Fenton, to sell the electric light plant at Fenton, owned by the bank, to Fayette L. Thompson, of Lansing, for $7,000.

GRAND RAPIDS, MICH.—Bids are asked until May 5 for constructing the proposed plant, advertised in our issue of April 21. (Postponement from April 28.) Fred A. Twamley, Secy. Bd. Pub. Wks.

YALE, MICH.—This place voted April 18 to issue $20,000 in bonds for a plant and water-works. Jas. McCall, Pres. Council.

BUNKER HILL, ILL.—The question of having a municipal plant is being considered, according to reports.

MILWAUKEE, WIS.—The joint board of library and museum trustees received the following bids recently for electric light and gas fixtures for the new building.

		Two bronze electroliers extra.
T. W. Wilmarth Co., Chicago	$12,870	$2,200
Mitchell-Vance Co., New York	12,750	3,250
Chicago Gas & Electric Fix. Mfg. Co.	13,231	2,750
E. T. Dovn Milwaukee	12,370	1,200
Grassler & Gesselschap, Milwaukee	12,600	2,300
De Kosenko Mfg. Co., Philadelphia	13,375	2,510
Wisconsin Electrical Construction Co.	14,469	2,370
W. C. Vosburg Co., Brooklyn	16,000	3,000
Oxley & Enos Mfg. Co., New York	12,500	3,500

FOUNTAIN CITY, WIS.—F. Roettiger, it is reported, proposes to construct a plant.

FOSSTON, MINN.—An election was held April 27 to vote on the question of issuing $12,000 in bonds for a plant and water-works.

NEOLA, IA.—The council has rejected the bids that were received recently for constructing the proposed plant to cost about $5,000. The sale is said to have been postponed. W. H. Killpack, Mayor.

PARKERSBURG, IA.—The Parkersburg Electric Light, Heat & Power Co. has been granted a franchise.

NEW PAYNESVILLE, MINN.—This place is reported to have voted to issue $8,000 in bonds for a plant and water-works.

ST. CLOUD, MINN.—The St. Cloud Water Light & Power Co. will issue $90,000 of stock to replace certain bonds, and $15,000 more for proposed improvements to the plant and $20,000 for improving the water-works. Pres. and Gen. Mgr., C. S. Benson.

ST. PAUL, MINN.—Local papers state that plans for the proposed municipal plant have been completed. The report of the committee will soon be submitted, after which bids for furnishing and installing the machinery will be asked. The building will be 113 × 42 ft. and will have two stories. There are to be beds for six 100-HP. engines, which will be able to produce 10⁄ arc lights of 2,000 c. p. There will be three boilers of 150-HP. each. Two of these are to be joined and one separate. Chn. Com., G. Willius, Jr., Elect. Engr., 511 Phoenix Bldg., St. Paul.

TWO HARBORS, MINN.—W. A. Doerr, Recdr., writes us that the city is only securing estimates for the proposed plant to have a capacity of 30 arc and 1,500 incandescent lights; estimated cost, $5,500. Jas. H. Lunz, Pres.

ROLLA, MO.—This place is said to have voted to purchase and extend the plant of the Rolla Electric Light & Power Co.; estimated cost, $6,000.

CISCO, TEX.—Frank Vernon, Cisco, writes us that subscriptions for lights are now being secured. When 150 are taken work on the plant will be begun. Mr. Vernon is in the market for wiring and a 300 or 500-light dynamo. Besides the 300 incandescent lights there will be 5 arc lights of 2,000 c. p.

CUERO, TEX.—It is stated that at a meeting of the Cuero Electric Light & Power Co., April 11, a dam company was organized and $12,000 was subscribed, and the construction will probably begin at once.

BELVEDERE, CAL.—G. W. Clark, Tiburon, Cal., has been granted permission to erect light lines in this county.

PASADENA, CAL.—Bids are asked until May 16 for the purchase of a franchise for constructing electric light lines in this place. The San Gabriel Electric Light & Power Co. has asked for the franchise; security, $10,000. Herman Dyes, Cy. Clk.

SAN FRANCISCO, CAL.—The Union Iron Works, San Francisco, has been awarded the contract for constructing a power house for the Central Light & Power Co., at Market and Fourth Sts.; estimated cost, $50,000.

VISALIA, CAL.—H. G. Lacey, of Hanford, Cal., the proprietor of the electric light works and flour mill, proposes to organize a company to bring electric power from Fowler to Visalia. The Hanford power line from Fresno runs through Fowler. A branch to this city would cost $30,000. Soon as the Hanford power is in use he will turn his attention to Visalia.

SALMON CITY, IDAHO.—We are informed that the Salmon City Electric Light & Power Co. proposes to build a plant with a capacity of 6 arc and 600 incandescent lights; estimated cost, $6,000.

LONDON, ONT.—The question of building a municipal plant is being considered, according to reports.

NEW COMPANIES.—Parkersburg Electric Light Co., Parkersburg, Ia.; $10,000.

Economic Light & Heat Co., Los Angeles, Cal.; $60,000; R. S. Lawrence, A. S. Stimson, A. Brogden, H. W. Brown, C. A. Robinson.

Winslow Electric Light & Ice Mfg. Co., Winslow, Ariz.; $40,000; Frank Hart, J. X. Woods, W. R. Campbell, U. Z. Rand, A. T. Cornish.

Farmington Electric Light & Ice Co., Farmington, Mo.; $25,000; R. D. O. Johnson, Charles E. Schwartz, C. R. Webb.

Holcomb & Green Electric Co., Springfield, Ill.; $5,000; Eugene Holcomb, H. S. Green, C. F. Adams.

BRIDGES.

ALBANY, N. Y.—Horace Andrews, Cy. Engr., notified the board of contract April 18 that the Hawk St. viaduct was in a dangerous condition. He has been directed to make specifications for repairs to be submitted at the next meeting of the board.

ROCHESTER, N. Y.—Plans have been approved by the city engineer for a bridge at Clarissa St. by the Erie R. R. Co. G. A. Thompson, Division Supt., Rochester.

NEW KENSINGTON, PA.—Reports state that bids are soon to be asked by the Ninth St. Bridge Co. for the construction of a bridge at Ninth St., over the Allegheny River.

WEST SCRANTON, PA.—Joseph Oliver, Secy., West Side Board of Trade, 1317 Hampton St., informs us that it is proposed to construct an iron bridge 680 ft. long and 60 ft. wide near West Lackawanna Ave., from Seventh to Ninth Sts.; estimated cost, about $70,000. A bond ordinance will be submitted to a vote.

TAMAQUA, PA.—It is reported that the Philadelphia & Reading Ry. Co. will construct a steel bridge across the Schuylkill River, to replace the wooden structure recently damaged by fire. H. K. Nichols, Ch. Engr., Bridges, Philadelphia.

NORRISTOWN, PA.—The county commissioners have decided to construct bridges as follows: Over Saw Mill Run in Norristown; Pottstown, over Manatawny Creek on King St.; over Branch Creek in Sanford; over Perkiomen Creek in Upper Hanover, and over Perkiomen Creek in Yerkes, according to reports.

WARREN, PA.—L. T. Borchers, Chn. Bridge Com., informs us that bids will soon be asked by the council for the construction of a steel bridge 25 ft. long and 40 ft. wide, on stone foundation, having a capacity of 100 lbs. per sq. ft.

WILMINGTON, DEL.—The county commissioners have authorized the construction of bridges over the creek at this place and over Harlan Creek.

ANNAPOLIS, MD.—Bids will soon be asked by the county commissioners for the construction of a bridge over Long Cove. The question of constructing a bridge over Curtis Creek is also being considered. A. K. Starlings, County Clk.

BALTIMORE, MD.—We are informed that the Cumberland & Pennsylvania R. R. Co. will construct two steel bridges, one over Willis Creek and one at Wingerts; estimated cost, $15,000 each. C. K. Lord, Pres., 44 South St., Baltimore.

AIKEN, S. C.—Bids are asked until May 6 for constructing a bridge across the mouth of Horse Creek. T. P. Raborn, County Supv.

ELBERTON, GA.—It is reported that plans have been submitted to the board of trade for a new bridge across the Broad River. W. O. Jones, Pres.; W. B. Hemy, Cy. Clk.

CARROLLTON, GA.—Bids are asked until May 3 for constructing a bridge across Rowe's Mill Creek, according to reports. S. J. Brown, Ordinary.

OCALA, FLA.—Press reports state that the county commissioners have authorized the construction of a bridge across Juniper Creek.

MOBILE, ALA.—Bids are asked by the Mobile Light & R. R. Co. for constructing a bridge over the Shell Road, at Monroe Park. J. H. Wilson, Pres.

GREENWOOD, MISS.—A bill has passed the senate authorizing the construction of a bridge across the Yazoo River, near this place, according to reports.

CHATTANOOGA, TENN.—Bids are to be asked by the county engineer for the construction of a bridge over Chattanooga Creek.

ENGLISH, KY.—The county court will appropriate about $2,000 to construct a new bridge over Mill Creek at this place.

BOWLING GREEN, O.—Bids are asked until May 11 for the purchase of $20,000 of 5% bridge bonds. G. W. Gaghan, County Audr.

CINCINNATI, O.—Bids are asked until May 14 for building approaches to bridges over Little Miami River and Big Dry Run at Indian Hill, Anderson township; surety, $500; and until May 21 for constructing an arch culvert on Northside Ave.; surety $500. Eugene L. Lewis, County Audr.

CINCINNATI, O.—Bids are asked until May 21 for constructing two bridges and approaches over Muddy Creek and one over the south fork of Taylor's Creek, in Green township. Eugene L. Lewis, County Audr.

COLUMBUS, O.—Henry Maetzel, County Surv., has submitted an estimate of $245,000 for the construction of bridges to replace those recently destroyed by floods; bonds to that amount will soon be issued.

COSHOCTON, O.—Reports state that $10,000 in bonds will be issued for the construction of county bridges.

MILLWOOD, O.—Bids are asked until May 12 for constructing the iron superstructure of a bridge 186 ft. span, 18 ft. wide, over the Kokosing River. W. A. Wander, County Audr., Mount Vernon.

HAMILTON, O.—Petitions have been presented to the county commissioners to construct a bridge over Seven Mile Creek at Oxford Ford, Milford township, and over Elk Creek in Madison township.

MARION, O.—A contract has been awarded to the Columbus Bridge Co., Columbus, O., at $2,234, to construct a 100-ft. bridge over Rush Creek.

SANDUSKY, O.—Bids are asked until May 16 for constructing a bridge at Ninth St., requiring 4,000 cu. ft. of masonry and 7,000 cu. yds. of filling; estimated cost, $4,250. Isaac C. Brewer, Cy. Engr.

WEST CARROLLTON, O.—A new bridge will be built over the dam at this place by the county commissioners; it will be 60 ft. long and 14 ft. wide.

COLUMBUS, IND.—The county commissioners awarded a contract to the Lafayette Bridge Co., April 15, at $2,000, to repair the Nineveh Road bridge.

MONTICELLO, IND.—Bids are asked until May 5 for constructing an iron bridge 271 ft. long and 32 ft. wide, capacity 80 lbs. per sq. ft. M. J. Holtzman, County Audr.

RICHMOND, IND.—The Massillon Bridge Co., Massillon, O., has been awarded a contract at $9,800, to construct a 180-ft. span bridge over the Whitewater River, at North 10th St. Jesse H. Brooks, Chn. Com.

JOLIET, ILL.—The council has adopted the plans submitted by the drainage committee for the construction of a steel bridge across the Des Plaines River at Jefferson St., to be 60 ft. by 50 ft. Geo. W. Brown, Cy. Engr.

ROSECRANS, WIS.—A contract has been awarded to the J. G. Wagner Co., Milwaukee, at $2,950, for constructing an iron bridge over the Des Plaines River.

LAKE BELT, MINN.—Bids are asked until May 2 for constructing a bridge over Ten-Mile Creek, according to reports. E. J. Wiltse, Town Clk.

WASECA, MINN.—A. J. Lohren, County Audr., informs us that the Gillette-Herzog Mfg. Co., Minneapolis, was awarded a contract April 16, at $1,315, for constructing a steel bridge over the Le Sueur River, six miles from this place.

MARION, IA.—The county commissioners have voted to issue $25,000 in bonds for the construction of a bridge at the north end of Muskegan Lake.

ST. JOSEPH, MO.—Ordinances have been passed by the county court for the construction of seven bridges; estimated cost $8,000.

FARGO, N. DAK.—Bids are asked until May 4 for constructing a 120-ft. pile bridge across the Cheyenne River and a 50-ft. pile bridge in Addison, according to reports. O. J. Olson, County Audr.

FORMAN, N. DAK.—Bids are asked until May 18 for constructing a bridge over Wild Rice Creek, according to reports. A. N. Cariblom, County Audr.

SHERBROOKE, N. DAK.—Bids are asked until May 7 for constructing eight bridges, according to reports. C. G. Boise, County Audr.

HURON, S. DAK.—Bids are asked until April 30 for constructing a bridge across the James River, according to reports. W. N. Rogers, County Audr.

KAMELA, ORE.—Reports state that the A. W. Mills Co., Tacoma, Wash., has been awarded a contract at $2,278 for constructing a wagon bridge across the Halema River, north of here.

NEVADA CITY, CAL.—Cotton Bros. & Co., Oakland, Cal., were awarded a contract April 14 by the county supervisors for constructing the following bridges: Steel bridge over Deer Creek, $2,248; wood and iron bridge, Rock Creek, $1,645; concrete bridge, over Dry Creek, $2,294.

WILLIAMS, CAL.—Bids are asked by the county surveyor, Colusa county, until May 4 for building a bridge over Cheney Clough, according to reports.

COPENHAGEN, DENMARK.—Reports state that a bridge across the Little Belt connecting the island of Funen with the continental part of Denmark is proposed in a bill before the legislature. The span to be bridged is 4,500 ft. long; the plan is to support it on groups of iron columns 1,000 ft. apart, so that the roadway shall be 130 ft. above high-water level. The cost is estimated at $3,250,000.

BUILDINGS.

BOSTON, MASS.—Bids are asked by the committee on school houses, until April 30, for additions to the Frothingham school, on Prospect St., and to the Noble School, on Princeton St. Chn., Thos. F. Strange.

LYNN, MASS.—Porter & Hannum, 22½ Main St., North Adams, Mass., are reported to have been awarded the contract for the construction of the new library building for Lynn Public Library, at $102,883. Arch., Geo. A. Moore, 70 Kibby St., Boston.

GENESEO, N. Y.—Bids are asked by supervisors of Livingston county, until May 3, for the heating, plumbing and electric wiring for the new court house. Newton B. Gorham, County Clk., Geneseo; Bragdon & Hillman, Archs., Cutler Bldg., Rochester, N. Y.

NEW YORK, N. Y.—Plans are being prepared, according to reports, for a new 15-story brick, stone and terra cotta office building to be erected at Liberty and William Sts., for the Dudley Co., 47 Cedar St., of which Anson Phelps Stokes is president. Archs, Howell & Stokes, 47 Cedar St.——Plans have been filed by H. F. Haefler, 558 West 142d St., for ten 5-story brick flat and store buildings at 1st Ave. and 149th St., to cost $259,000. Arch., J. C. Burne, 101 West 42d St.; by St. Stephen's Roman Catholic Church, 149 East 29th St., for a 4-story and basement brick and stone school building on 28th St., near Lexington Ave., to cost $100,000. Arch., Elliott Lynch, 1133 Broadway; by the Clark Estate, 25 West 23d St., for a 4-story brick and stone dwelling at 89th St. and Riverside Drive, to cost $150,000. Arch., Ernest Flagg, 35 Wall St.; by Charles Kerwan, 400 West 153d St., for five 5-story brick flat and store buildings at 164th St. and Amsterdam Ave., to cost $125,000. Arch., Henry Anderson; by Empire Construction Co., 238 Columbus Ave., for a 6-story brick flat building on 85th St., near Riverside Drive, to cost $85,000. Arch., Henry Anderson, 1180 Broadway; by Tessie Adams, 319 East 114th St., for a 6-story brick business building at 507 and 509 West Broadway, to cost $110,000. Arch., Sol. D. Cohen, 203 Broadway; by Harry Fischel, 215 East Broadway, for two 6-story brick flat and store buildings at 226 to 230 Henry St., to cost $80,000. Archs., Horenburger & Straub, 122 Bowery; by John Westervelt, 43 East 19th St., for a 7-story brick flat building on West End Ave., near 80th St., to cost $90,000. Arch., Henry Anderson, 1180 Broadway; by Thos. J. McGuire, 968 St. Nicholas Ave., for a 7-story brick flat and store building on the Boulevard, near 91st St., to cost $110,000. Arch., H. T. Howell, 748 East 138th St.; by John Yule, 510 East 161st St., for three 5-story flat buildings on 115th St., near Amsterdam Ave., to cost $75,000. Arch., John Brandt, 1503 3d Ave.; by Henry Nickelsbury, 134 Lenox Ave., for three 5-story brick flat buildings on 145th St., near the Boulevard, to cost $81,000. Arch., C. A. Millner, 81 East 125th St.

NEW YORK, N. Y.—The warehouse buildings at 25 and 27 South William St., occupied by C. H. Arnold, the Nile Tobacco Co. and others, were destroyed by fire, April 26, causing a reported loss of $50,000.

SCHENECTADY, N. Y.—The contract for the construction of the new county jail is reported to have been awarded to the Van Dorn Iron Co., Cleveland, O., at $23,675.

JERSEY CITY, N. J.—Reports state that the Pennsylvania R. R. Co., April 22, awarded the contract for driving about 500 piles as foundations for the new waiting room, to Sanford & Stillman, of Exchange Place, Jersey City.

PATERSON, N. J.—It is reported that plans are being prepared for the High Mountain Park Association, Pres., Wm. M. Ernst, for a 4-story frame hotel to be erected on High Mountain, near Paterson, at a cost of about $100,000. Arch., S. Burrage Reed, 245 Broadway, New York.

SCRANTON, PA.—Bids are asked until May 9 for the erection of a new 12-room school building. Eugene D. Fellows, Secy. Bd. of Control; John A. Duckworth, Arch.

WASHINGTON, PA.—Bids are asked by the commissioners of Washington county, until May 3, for the erection of new court house and jail buildings. Arch., F. J. Osterling, "Times" Building, Pittsburg, Pa.

BALTIMORE, MD.—Reports state that Geo. A. Blake has been awarded the contract for the erection of additional buildings for Loyola College. Arch., T. C. Kennedy, 12 East Lexington St.

ALEXANDRIA, VA.—Bids are asked by H. H. Young, County Clk., until May 2, for the erection of a court house and jail for Alexander county at Fort Myer Heights; estimated cost, $20,000. Arch., A. Goenner, Bliss Bldg., Washington, D. C.

NEWPORT NEWS, VA.—Peddicord & Co., of Newport News, are said to have received the contract for erecting the new building for the Central High School, at $19,845. Meyer & Shepard were awarded the contract for installing a heating apparatus, at $4,378.

ROANOKE, VA.—We are informed that J. F. Barbour & Co., of Roanoke, have been awarded the contract for the erection of a new public school building in this city.

CENTERVILLE, ALA.—Bids are asked until May 10, according to reports, for the construction of a 3-story brick and store hotel building for the Centerville Banking Co., to cost about $20,000. Archs., Chas. Wheelock & Sons, Birmingham, Ala.

TALLEDEGA, ALA.—Bids are asked until April 30 for erecting a 3-story brick asylum building. Archs., Chas. Wheelock & Sons, Birmingham, Ala.

MONTICELLO, IND.—Bids are asked until May 10 for constructing an addition to a school building, as described in our advertising columns. W. S. Bushnell, Secy. Bd. Trustees.

JACKSON, MICH.—Bids are asked until May 5, for the construction of a new stone and brick chapel and parish house for St. Paul's Parish. Chn., C. C. Bloomfield; Arch., Claire Allen, of Jackson.

MADISON, WIS.—The following bids have been received for the erection of a new building for the University of Wisconsin: Archs., Ferry & Clas, Milwaukee, Wis.: Harry Johnson, Milwaukee, $57,275; Paul Riessen, Milwaukee, Wis., $54,800; H. Ferge, Milwaukee, Wis., $53,973; T. C. McCarthy, Madison, Wis. (accepted), $49,849.

IDA GROVE, IA.—Bids are asked by the board of education, until May 11, for heating, and until May 12 for erecting a new school building at this place. Archs., W. R. Parsons & Son Co., Des Moines, Ia.

MINNEAPOLIS, MINN.—Reports state that plans have been accepted for the new hospital building to be erected in this city, at a cost of $60,000. Archs., MacLeod & Lamoreaux.

FARGO, N. DAK.—Reports state that Geo. S. Deeks & Co., 74 National German-American Bank Bldg., St. Paul, Minn., has been awarded the contract for erecting the new Northern Pacific passenger station in this city, estimated to cost $30,000. Arch., Cass Gilbert, of St. Paul.

KANSAS CITY, MO.—B. R. Whitney, Jr. informs us that plans for the new convention hall are well advanced, and that bids for the work will probably be received next month. The building will be of brick, stone and terra cotta, 198 × 314 ft., and will cost, exclusive of the site, about $100,000. Arch., F. E. Hill, 715 New York Life Bldg., Kansas City.

GIDDINGS, TEX.—Reports state that Gonnefield, Emmins & Albright, Dallas, Tex., were the lowest bidders for erecting a 3-story brick court house and steel vault, at $32,270. Arch., J. D. Gordon, San Antonio, Tex.

DENVER, COLO.—It is reported that a 3-story brick business block will soon be erected at 16th Ave. and Broadway, for Mrs. Maria T. Kassler; estimated cost, $40,000. Archs., Marean & Norton, Equitable Bldg.

PRESCOTT, ARIZ.—Bids are asked by C. W. Johnstone, Territorial Treas., until May 2, for the purchase of $100,000 of 5% capitol building bonds.

WINNIPEG, MAN.—Bids are asked by the directors of the Winnipeg General Hospital, until May 3, for the erection of the Victoria jubilee addition to the present building. Geo. J. Maulson, Chn. Bldg. Com.; Hugh McCowan, Arch., 490 Main St.

ST. JOHN, N. B.—Press reports state that the Canadian Pacific Ry. Co. contemplates the building of an addition to its elevator in this city, at a cost of about $175,000.

BELEM, BRAZIL.—Bids are asked by the Municipal Administration of Belem, until Oct. 24, for the construction of cattle-pens, an abattoir, two markets and two avenues. This is an extension of time from July 24.

GLASGOW, SCOTLAND.—A fire in this city, April 25, destroyed several large buildings in the Clydeside district, and damaged the Cathedral of St. Andrew; reported loss, $750,000.

WATER-WORKS.

BOSTON, MASS.—Bids are asked until May 6 for building a reservoir and gate chamber in the Middlesex Fells Stoneham, and until May 9 for laying about 20,000 ft. of water pipe, as described in our advertising columns. F. P. Stearns, Ch. Engr. Metropolitan Water Bd.; W. N. Davenport, Secy., 3 Mount Vernon St., Boston.

PEABODY, MASS.—E. E. Rielly, Chn., writes us that the contract for furnishing 800 ft. of 10-in., 2,500 ft. of 8-in., and 7,000 ft. of 6-in. cast-iron water pipe, has been let to the Donaldson Iron Co., Emaus, Pa.; that for laying the pipe has been awarded to Franklin Snow, Boston.

ALBANY, N. Y.—Bids are asked until May 3 for furnishing 300 gross tons of cast-iron water pipe and 10,000 lbs. of special castings; and until May 17 for water filtration plant, contract No. 5, consisting of two pumping engines, together with the necessary appurtenances to pump water against a lift of from 18 to 24 ft. as stated in our advertising columns. Ch. Engr., Allen Hazen, St. Paul Bldg., New York; Supt., Geo. I. Bailey.

BERGEN, N. Y.—The fire department has asked the village board to build two reservoirs.

EAST WORCESTER, N. Y.—The East Worcester Water Co. has been incorporated with a capital stock of $14,000, by W. E. Dante, of East Worcester; C. W. Phincle, Harpersfield, N. Y.; and C. E. Nichols, of Jefferson, N. Y.

LARCHMONT, N. Y.—This place is having its water storage largely increased by the construction of a masonry dam and impounding reservoir, under the joint direction of Geo. B. Burbank, 15 Wall St., and Louis L. Tribus, 84 Warren St., New York.

MAMARONECK, N.Y.—The New York & Suburban Water Co. has begun a suit against certain property-holders for the condemnation of certain lands to be used in extending its water basins and for a new reservoir. Henry C. Henderson, 68 Broad St., New York, is interested.

MIDDLETOWN, N. Y.—This city voted, April 22, against issuing $175,000 in bonds for an additional water supply.

CHARLOTTE, N. Y.—An election will be held May 4 to vote on the question of issuing $25,000 in bonds for works, and $10,000 in bonds for a light plant. P. M. Schwartz, Clk.

SYRACUSE, N. Y.—Bids are asked until May 7 for furnishing 100,000 lbs. of ½-in., 18,000 lbs. of ⅝-in., 35,000 lbs. ¾-in., and 15,000 lbs. of 1-in. lead water pipe, and 15 tons of pig lead; all to be delivered by May 17. W. R. Hill, Supt. Water Bd.

AVALON, N. J.—B. F. Sweeten & Son, Camden, N. J., have been awarded the contract for constructing the works at $19,850.

MADISON, N. J.—Louis L. Tribus, 84 Warren St., New York, has reported on the contemplated extension of the works, recommending the adoption of an auxiliary driven well plant. This system has proven very successful in the neighboring borough of Chatham, under similar conditions, as the source of supply for the works recently completed there from Mr. Tribus' plans and under his direction.

PERTH AMBOY, N. J.—The contract for furnishing and placing a 4,000,000-gallon pumping engine at Runyon has been let to Henry R. Worthington, New York, at $10,950.

HELLERTOWN, PA.—The Allentown Paving & Constructing Co., Allentown, Pa., has been awarded the contract for constructing the works, as advertised in Engineering News, at $13,200. Engr., W. F. Cressman, Sellersville, Pa.; Secy., Russel Koplin.

PARNASSUS, PA.—The committee has voted to issue $17,000 in bonds for the proposed works. Bids will probably be asked in a few days. Engr., S. A. Taylor, 330 Fifth Ave., Pittsburg; Clk., E. D. Cree.

PITTSBURG, PA.—We are informed that the New York Filter Mfg. Co., 120 Liberty St., New York, has been awarded the contract for furnishing a water filter plant for the Pittsburg City Home, Marshalsea, at $3,850. The filter will have a capacity of 400,000 gallons a day.

READING, PA.—The subject of filtering the water is again being considered, and councils have appointed a committee to investigate.

POCOMOKE CITY, MD.—This place voted April 19 to issue $30,000 in bonds for works and a sewerage system. E. W. Veasey, Clk.

RICHMOND, VA.—Horace A. Hawkins, Councilman, 2705 East Grace St., writes us in regard to the proposed supply for Oakland, that the building of a steel tower and a cypress or cedar tank of 5,000 gallons capacity are about completed. The system is for the purpose of supplying water to flumes and plants. Total cost will be less than $1,000.——The city will be glad to learn of some method of clarifying its water supply, and will adopt a system that will afford relief. Supt., W. A. Dickinson.

ARCADIA, FLA.—It is proposed to construct works and light plant, according to reports. J. L. Jones, Mayor.

CARROLLTON, MISS.—W. H. Hafun, Mayor, writes us that the town wishes to have offers for sinking an artesian well for a water supply; population, 800.

CRYSTAL SPRINGS, MISS.—Walter G. Kirkpatrick Jackson, Miss., is preparing plans for works and a light plant. The aldermen are negotiating for the sale of the bonds.

SUMMIT, MISS.—Bids are asked until May 3 for the purchase of $15,000 of 6% bonds for building the proposed works. J. R. Holden, Mayor.

GALLATIN, TENN.—An election will probably be held May 14 to vote on the question of issuing $35,000 in bonds for works. E. O. Buchanan or D. K. Spillert may be addressed. W. L. Oldham, Recdr.

WINCHESTER, TENN.—G. G. Ball and F. E. Pittenger are arranging for the construction of works.

CHICAGO JUNCTION, O.—We are informed that it is expected that plans and specifications for the new works will be ready in about 30 days. J. P. Fitzgerald, J. A. Wheeler, B. F. Fink, trustees; Louis Simmermacher, Clk.

DELAWARE, O.—The legislature has been asked to grant this place authority to issue $150,000 in bonds for the purchase of the works of the Delaware Water Co.

WELLINGTON, O.—Burton J. Ashley, Old Colony Bldg., Chicago, Ill., is preparing plans and specifications for a combined electric light plant and water-works at Wellington.

AUBURN, IND.—J. J. Van Auken, Cy. Engr., writes us that the following contracts were let April 23 for constructing the works:

T. C. & H. M. Brooks, Jackson, Mich., pipe line	$15,023
Rensselaer Mfg. Co., Troy, N.Y., valves and hydrants	1,920
Picker Bros., Auburn, power station	5,215
Laidlaw-Dunn-Gordon Co., Cincinnati, pumps	1,880
Arbuckle, Ryan & Co., Toledo, O., steam plant	5,962
Total	$30,000

A report states that Arbuckle, Ryan & Co. have also the contract for building the works. The Auburn Water-Works Co. has been incorporated to mortgage the plant.

BRISTOL, IND.—The question of issuing bonds for works and a light plant will soon be held, according to reports.

CHELSEA, MICH.—W. H. Heselschwerdt, Clk., writes us that this place has bought the works and plant owned by F. P. Glazier. No extensions will be made.

MANCHESTER, MICH.—The question of building works is being considered, according to reports.

MARSHALL, MICH.—Bids are asked until May 18 for laying about 9,500 ft. of 6-in. water pipe, connecting hydrants, crosses, etc. Supt., P. S. Joy.

YALE, MICH.—This place voted, April 18, to issue $20,000 in bonds for works and a light plant. Jas. McCall, Pres. Comrs.

CHICAGO, ILL.—Bids are asked until April 29 for laying water pipe in about 15 streets. L. E. McGann, Pres. Bd. Local Improvements.

GREENVILLE, ILL.—The question of building a standpipe is being considered by the council, according to reports. Supt., A. Biggs.

KANKAKEE, ILL.—J. B. Reed, Receiver and Supt. Kankakee Water-Works Co., is preparing estimates for extending the mains in two streets.

MINERAL POINT, WIS.—H. S. Well, Cy. Clk., writes us that the following bids were received April 19 for constructing works, complete, except well and pump:

F. J. Muller Furnace Co., Milwaukee	$4,980
H. A. Keith & Co., The Rookery, Chicago	4,540
Stenck & Lenahan, Dubuque, Ia.	4,888
Crellin & Lowell, Des Moines, Ia. (accepted)	3,889

REEDSBURG, WIS.—It is stated that the superintendent of the water-works is arranging to purchase at once about 20 water meters.

ELDORA, IA.—A. C. Harris, Councilman, writes us that the city is contemplating extending the water mains.

OTTUMWA, IA.—The material for the proposed extensions to the works of the City Water Supply Co. has been purchased. Supt., Abram Wing.

DULUTH, MINN.—The council has postponed the date for receiving bids for the purchase of $955,000 of water and light bonds from May 9, according to reports. H. W. Cheadle, Cy. Clk.

ELMORE, MINN.—This place is reported as considering the question of building works.

FOSSTON, MINN.—This place held an election April 27 to vote on the question of issuing $12,000 in bonds for the proposed works and light plant.

SPARTA, MINN.—This place will construct works, according to reports.

SCOTLAND, S. DAK.—This place is reported to have voted to issue $5,000 in bonds for improving the works.

NEW PAYNESVILLE, MINN.—An election was held April 25 to vote on the question of issuing $8,000 in bonds for the proposed works. Frank Tolman, Village Attorney.

STAPLES, MINN.—The Northern Pacific Ry. Co., it is reported, is considering estimates for small works in this place for furnishing water to engines, etc. The supply will be secured from Crow Wing River, about four miles distant. A. J. Sovereign, Asst. Div. Supt., Staples.

ST. CLOUD, MINN.—The St. Cloud Water, Light & Power Co. has decided to issue $150,000 in stock to replace certain bonds and to issue $20,000 for improvements to the works, and $18,000 for improvements to the light plant. C. S. Benson, Pres. and Gen. Mgr.

WIMBLEDON, N. DAK.—This place is reported as securing funds for the proposed works.

ELKPOINT, S. DAK.—A new election will be held April 30 to vote on the question of issuing bonds for the proposed works, to cost about $12,000. The former election and actions of the council are reported to have been declared illegal. H. L. Moore, Cy. Clk.

KIRKSVILLE, MO.—An election will be held May 3 to vote on the question of issuing $15,000 in bonds for extending the works. Supt., Stephen Hall.

KIRKWOOD, MO.—It is stated that the engineer recently employed to report on the proposed water supply from St. Louis has reported against the scheme. The report states that the only other way in which the town can secure a supply will be either from works at Meramec or an individual plant.

JONESBORO, ARK.—The Jonesboro Water Co. has been incorporated, with a capital stock of $50,000, by Robt. M. Foster, Richard P. Martin and Stephen Stearns.

CORSICANA, TEX.—It is reported that the Corsicana Water Development Co. wants to purchase a stand-pipe, about 6,000 ft. of 6-in. water pipe, special castings, etc. Pres. Jas. L. Autry.

ORANGE, TEX.—Bids are asked until May 2 for furnishing and erecting a stand-pipe of about 50,000 gallons capacity. The bids received March 1 were rejected. Mayor, B. F. Sibley; Des. Engr., John Turner Smith, Austin, Tex.; Chn. Com., E. W. Bancroft.

PALESTINE, TEX.—Frank E. Holliday, Northampton, Mass., writes us that the proposed works, noted in our issue of last week will have two pumps of 1,500,000 gallons capacity each; 17 miles of 4 to 12-in. cast-iron water pipe; 125 fire hydrants; estimated cost, $90,000. Bids for furnishing the material and for constructing the works are now being received. The supply will be secured from artesian wells. Population 12,000. W. B. Johnson, Palestine, may also be addressed.

BRECKENRIDGE, COLO.—We are informed that this place has voted to have new works. A fall of about 200 ft. in three-fourths of a mile can be obtained. An earth reservoir will be built. It is expected that Fred. C. Cramer, Breckenridge, will soon make a survey to secure the cost, etc. After that a special election will be held to vote on the question of issuing bonds. Population (1890), 700.

GRAND JUNCTION, COLO.—W. P. Ela, Mayor, writes us that by a vote of the council, approved by a vote of the taxpayers, the city has purchased the works of the Grand Junction Water Co. for $55,000. The city will probably extend and improve the works; no contracts have yet been let. A supply of better water from the same source as the present is wanted.

LOS ANGELES, CAL.—Bids are asked by the supervisors, until May 17, for the purchase of a 25-year franchise for a water pipe line from Pasadena to the Los Robles ranch. E. F. Fleun, of Los Angeles, has applied for the franchise.

SANTA ANA, CAL.—Bids are asked until May 2 for furnishing a pumping plant of 1,500,000 gallons capacity. Edward Telford, Cy. Clk.

FORT MOJAVE, ARIZ.—Bids are asked by John J. McKoin, Supt. Indian Industrial School, Fort Mojave, or the Indian Office, Washington, D. C., for constructing small works and a sewerage system.

JUNEAU, ALASKA.—Local papers state that the Last Chance Gold Mining Co. will build new works in this city. The capital stock of the company is $500,000. Pres., Wilbur F. Reeder, Harrisburg, Pa.; Vice-Pres., W. O. Stout, Twin City Rapid Transit Co., Minneapolis, Minn.; Secy., J. Clark Hill, Philadelphia.

SEWERAGE.

BOSTON, MASS.—Bids are asked until April 30 for constructing 1,550 ft. of 15-in. pipe sewers in Malden and Everett. W. M. Brown, Jr., Ch. Engr. Bd. Metropolitan Sewerage Comrs., 1 Mount Vernon St.

CONCORD, MASS.—C. E. Brown, Town Clk., writes us that the council has appropriated $70,000 for sewers. Des. Engr., Wm. Wheeler, Concord.

NORTH ADAMS, MASS.—Bids are asked until April 30 for furnishing the city with sewer pipe during this season. J. H. Emigh, Comr. Pub. Wks.

NORTH ADAMS, MASS.—The council will probably soon issue $30,000 in bonds for sewers. H. T. Cady, Mayor.

QUINCY, MASS.—Bids are asked until May 12 for furnishing 50,000 ft. of sewer pipe and for building about 14,200 ft. of 20 to 8-in. pipe sewers, as stated in our advertising columns. Engr., E. W. Branch; H. T. Whitman, Chn. Comrs.

SOMERVILLE, MASS.—T. H. Bryne, Hyde Park, Mass., has been awarded the contract, at $17,410, for constructing a 3½-ft. sewer in the East Somerville district. Richard Falvey, Somerville, has the contract for constructing a storm sewer in another part of the city, at $16,444. It is stated that within a few days another contract for a large sewer will be let. Next week we will give the itemized bids for the work. E. W. Bailey, Cy. Engr.

COHOES, N. Y.—Plans are asked until July 1 for a sewerage system, as stated in our advertising columns. J. D. Featherstonhaugh, Pres. Comn.; Wm. J. Elliot, Clk.

ONEIDA, N. Y.—Dr. J. T. Wallace, Pres. Sewer Com., writes us that John Harris, Buffalo, has been awarded the contract for constructing about 5,000 ft. of pipe sewers, as advertised in Engineering News, at $11,500.

ROCHESTER, N. Y.—Bids are asked until May 3 for constructing pipe sewers in four streets, at a cost of about $6,000, and macadam paving in Bates St., at a cost of $4,550. Chas. M. Beattie, Clk. Executive Bd.

TUXEDO PARK, N. Y.—In our issue of last week we reported that the Tuxedo Park Association was contemplating the construction of a sewage disposal plant. We are informed that the contract for this plant on Col. Geo. E. Waring's system of complete bacterial oxidation was awarded to the D. A. Tompkins Co., Charlotte, N. C., and New York, last January. The work of construction is now well in hand, and it is expected that the plant will be in service by June 1. Res. Engr., W. A. Church, 282 Manhattan Ave., New York.

CHESTER, PA.—It is proposed to construct sewers in a number of streets.

GREENSBURG, PA.—We are informed that it is proposed to build 1,000 ft. of 5×6-ft. brick sewers, at an average depth of 4 ft. Bids have not yet been asked. Cyrus T. Long, Borough Engr.

LEWISVILLE, PA.—The question of building sewers is being considered, according to reports.

McKEESROCKS, PA.—Bids are asked until April 30 for furnishing a quantity of sewer pipe for the year. R. F. Hunter may be addressed.

NORTH BRADDOCK, PA.—Fred. W. Edwards, Chn. Com., writes us that this city will start the construction of sewers this spring; estimated cost, $30,000. J. Grant Anderson and Benj. Braznell are on the committee.

PHILADELPHIA, PA.—Bids are asked until May 5 for constructing certain branch sewers. T. M. Thompson, Dir. Dept. Pub. Wks.

YORK, PA.—J. G. Durbin, Cy. Engr., writes us that an ordinance has been introduced authorizing a loan of $500,000 for general improvements, of which $50,000 will be for sewers and $50,000 for creek improvements. Should the councils pass the ordinance the question will have to be submitted to a vote of the people, as the present city debt is about at its limit.

CAMBRIDGE, MD.—It is stated that this place will soon ask for bids for the purchase of $5,000 of sewer bonds.

HAGERSTOWN, MD.—Dr. E. M. Schrudel, Mayor, writes us that no steps have yet been taken for a system or a light plant, reported in our issue of last week.

POCOMOKE CITY, MD.—This place has voted to issue $30,000 in bonds for a system and water-works.

MEMPHIS, TENN.—New bids have been asked by the council for the purchase of sewer bonds.

BATAVIA, O.—Bonds will probably soon be issued for constructing certain sewers, according to reports.

CLEVELAND, O.—Bids are asked until May 6 for constructing sewer bonds in four streets. G. R. Warden, Dir. Pub. Wks.

MASSILLON, O.—Plans and specifications for a sewage disposal plant at the Massillon State Hospital are to be prepared by Snow & Barbour, Tremont and Beacon Sts., Boston, Mass.

MARION, IND.—Bids are asked until May 23 for constructing a system, at a cost of about $57,000. Consult. Engrs., Sturdevant & Todd; Cy. Engr., L. M. Overman.

UNION CITY, IND.—It is proposed to construct sewers in certain streets. S. R. Beel, Mayor; J. H. Homey, Clk.

ANN ARBOR, MICH.—The following bids were received March 30 for constructing about a mile of 24-in. pipe sewer, with 30 catchbasins, as advertised in Engineering News; Glen V. Mills, Cy. Clk.; Geo. F. Keys, Cy. Engr.: W. J. Clancy, $4,006; W. W. Hatch, $4,026; Lephard & Winterhalter, $4,507; Kerlin Bros., $5,006; Talbot Paving Co., $7,931; W. M. Graham, $8,214; Alcatraz Asphalt Co., $6,077; Ayres Construction Co., $4,266; F. E. Cole, $8,715; Herman Hutzel, $4,006; T. C. Brooks & Co., $4,425; Schneider Bros., $5,864.

ADDISON, ILL.—The Addison Seminary will construct 1,400 ft. of 6-in. pipe sewers. Engr., G. I. Herrick, Wheaton, Ill.; Trustee, August Weber, Addison.

MADISON, WIS.—The council has voted to have the mayor and the city clerk to contract with the American Sanitary Engineering Co., of Detroit, Mich., for constructing a sewage disposal plant, at $37,200. Work will begin about May 15. Mayor Hoven may be addressed.

MINNEAPOLIS, MINN.—Bids are asked until April 29 for furnishing 1,000,000 sewer brick during the season; check, $500. L. A. Lydiard, Cy. Clk.

COLUMBIA, MO.—This place has voted against issuing $10,000 in bonds for a system.

ST. JOSEPH, MO.—An ordinance is before the council authorizing an appropriation of $10,000 for extending the Blacksnake sewer. Aldermen Ernst and Finch may be addressed.

WARRENSBURG, MO.—An election has been called for May 3 to vote on the question of issuing $8,000 in bonds for completing the system.

McKINNEY, TEX.—The council has granted a 50-year franchise to Jack Steele to construct a system in McKinney. The city reserves the right to purchase the system after five years, at an appraised valuation.

SANTA MONICA, CAL.—The Thompson Bridge Co., San Francisco, Cal., has been awarded the contract for constructing the outfall sewer and the screen house, at $11,720.

SAN DIEGO, CAL.—Edwin M. Capps, Cy. Engr., is preparing plans and specifications for a system to cover the whole of the south and eastern portions of the city. The system will require 24 to 6-in. pipe. Population, 3,500.

YUMA, ARIZ.—O. F. Townsend, Cy. Engr., writes us that nothing has been settled yet in regard to the proposed system.

HINTONBURG, ONT.—An election will be held May 3 to vote on the question of issuing $30,000 in bonds for the proposed system.

GARBAGE DISPOSAL—STREET CLEANING

NEW BEDFORD, MASS.—The Gammons' garbage disposal plant, near the Fall River R. R., was destroyed by fire April 22, causing a loss of about $35,000. Edgar H. Gammons may be addressed.

BINGHAMTON, N. Y.—No bids were received by the council April 19 for garbage disposal. The board of health and the council are considering the question of building a crematory. L. H. Quackenbush, Chn. Com.

TROY, N. Y.—E. Ogden Ross, Jr., Secy. Contracting Bd., writes us that the following bids were received April 26 for garbage disposal, noted in our issue of last week, the bids being per year for five years: John H. Wood, College St., Oberlin, O., $6,775; Zeph. F. Magill, 2001 Fifth Ave., Troy, $12,600. Awarded to J. H. Wood, who is to build a plant here, using the Smead Cremating & Power Co.'s garbage crematories, of Toledo.

ATLANTIC CITY, N. J.—Benj. F. Leeds has been awarded the contract for removing the garbage for three months at $1,535.——The council is considering sites for the proposed new plant, to cost about $6,000. Chairman Kelley may be addressed.

READING, PA.—Bids are asked until May 2 for collecting, removing and destroying the garbage and offal; bond, $5,000. S. S. Hoff, Cy. Engr.

STREETS AND ROADS.

ACTON, ME.—This place will purchase a road machine and plough. Commissioner Gerrish may be addressed.

BOSTON, MASS.—Bids are asked until April 28 for furnishing 500,000 gutter paving blocks; surety, $1,000. Benj. W. Wells, Supt. Sts.

BROOKLINE, MASS.—The council has voted to lay out Stedman St. at a cost of $3,000, and has also appropriated $65,000 for the maintenance of highways and $16,000 for constructing sidewalks.

LEE, MASS.—Edward J. Dowd, First Selectman, informs us that plans are not yet ready for the proposed macadamizing in Main St. for one-half mile, 40 ft. wide, for which $10,000 has been appropriated. W. H. Barnes, Des. Engr.; Chas. H. Pease, Clk.

NANTUCKET, MASS.—Bids are asked until April 28 for building a section of macadam road; surety, $250. Frank A. Mitchell, Road Comr.

NORTH ADAMS, MASS.—Bids are asked until April 30 for constructing concrete sidewalks during 1898. John H. Emigh, Comr. Pub. Wks.

QUINCY, MASS.—The street committee will construct 7,000 lin. ft. of concrete sidewalks in Hancock St.; estimated cost, $13,000.

SPENCER, MASS.—It has been voted to raise $4,000 for street repairs.

HARTFORD, CONN.—Highway Commissioner James H. MacDonald has made appropriations to towns for the improvement of highways as follows: South Windsor, $2,000; Suffield, $3,000; Wethersfield, $3,000; Windsor, $3,000; New Haven, $3,000; Waterbury, $3,000; Derby, $3,000; East Haven, $2,000; Guilford, $3,000; Hamden, $3,000; Meriden, $3,000; Middlebury, $3,000; Milford, $3,000; Naugatuck, $3,000; North Haven, $3,000; Orange, $3,000; Seymour, $3,000; Wallingford, $3,000; Woodbridge, $1,500; New London, $3,000; Norwich, $3,000; Griswold, $2,000; Groton, $3,000; North Stonington, Bicomfield, $3,000; Waterford, $3,000; East Granby, $2,000; East Hartford, $3,000; Manchester, $3,000; Plainville, $1,600; Rocky Hill, $3,000; Simsbury, $2,500; Southington, $3,000; Bridgeport, $1,000; Greenwich, $3,000; New Canaan, $3,000; Ridgefield; Stamford, $3,000; Stratford, $1,000; Weston, $500; Westport, $3,000; Wilton, $2,000; Killingly, $3,000; Plainfield, $3,000; Putnam, $3,000; Windham, $3,000; Woodstock, $2,000; Litchfield, $3,000; Canaan, $3,000; Torrington, $3,000; Watertown, $3,000; Winchester, $3,000; Woodbury, $2,500; Middletown, $3,000; Haddam, $1,500; Clinton, $3,000; Cromwell, $3,000; Durham, $3,000; East Haddam, $3,000; Old Saybrook, $3,000; Portland, $3,000; Stafford, $3,000; Vernon, $3,000; Chatham, $3,000; Newington, $3,000; Windsor Locks, $3,000; Chester, $3,000; Norwalk, $3,000; North Branford, $2,000.

MIDDLETOWN, CONN.—A hearing will be given by the council May 2 to consider a resolution to improve portions of Lawn Ave., Berlin St., Prospect St. and Liberty St. E. P. Augur, Cy. Surveyor; James P. Stow, Cy. Clk.; Wm. Mylchreest, Chn. Com.

NORTH HAVEN, CONN.—Bids are asked until May 2 for the improvement of roads. Henry B. Todd, First Selectman.

PUTNAM, CONN.—Reports state that it has been voted to issue $40,000 in bonds for street improvements.

SOUTH NORWALK, CONN.—The council has granted the Norwalk Tramway Co. the right to macadamize its right of way in Woodward Ave., from South Main St. to Meadow St.

STAMFORD, CONN.—Bids are asked until May 7 for improving a section of road from Darien to Stamford. Edwin S. Holly, First Selectman.

WETHERSFIELD, CONN.—Bids are asked until May 11 for the construction of a telford-macadam road. Josiah G. Adams, First Selectman.

BINGHAMTON, N. Y.—Bids were asked on about 15,000 sq. yds. of brick paving, according to reports. Cy. Engr., S. E. Monroe.——Court St. will probably be repaved, between Exchange and Liberty Sts.

BUFFALO, N. Y.—Bids are asked until May 5 for paving in Portage St. with repressed brick, Sycamore St. with either kind of pavement; North Parade Ave. and Northampton St. with Trinidad asphalt. R. G. Parsons, Secy. Bd. Pub. Wks.——Resolutions have been passed by the board of aldermen to pave portions of Earl Place, Franklin St. and Seneca St. with Bermudez asphalt and Seneca St. with Alcatraz asphalt. Frank W. Gethoefer, Cy. Clk.

NEW CITY, N.Y.—The county supervisors have made the following appropriations for county roads: Clarkstown, $3,900; Haverstraw, $3,600; Orangetown, $3,400; Ramapo, $6,700; Stony Point, $3,450. Messrs. Felter, Harris and Rose, County Supervisors.

MOUNT VERNON, N. Y.—Bids are asked until May 10 for paving, grading, etc., in Columbus Ave., from East Third St. to East Fifth St. Wm. N. Hoyt, Cy. Clk.

ROCHESTER, N. Y.—The executive board has resolved to improve portions of three streets, according to the following estimates: Amherst St., macadam, $5,175; Finch St., cement sidewalks, $2,500; Spencer St., brick pavement, $12,000; stone, $16,000; macadam, $10,000.

SALAMANCA, N. Y.—Reports state that the question of constructing about 3,500 sq. ft. of brick paving is being considered. E. B. Senear, Village Clk., writes us that it is not known when the matter will come up.

SYRACUSE, N. Y.—A contract has been awarded to the Empire Contracting Co., at $18,961, for paving Shonnard St., from South West to Oswego St. with Alcatraz asphalt.

TROY, N. Y.—Bids are asked until May 3 for brick paving, etc., in Maple Ave., from Pawling Ave. to Lansing Ave., and for repairing the asphalt pavement in Fifth Ave., from Hoosick Ave to Rensselaier St. E. Ogden Ross, Secy. Contracting Bd.

UTICA, N. Y.—The following are the lowest bids received April 22 for paving: Warren-Scharf Asphalt Paving Co. Aiken St., $4,841; Columbia Construction Co., Tracy St., $10,389, Bleecker St., $7,921. Union St., $4,765; W. W. Fowler, sandstone pavement, Liberty St., $4,197.

CAMDEN, N. J.—Bids are asked by the city clerk until May 16 for the purchase of $200,000 of street improvement bonds.——The Camden & Suburban Ry. Co. has offered a proposition to the council to pave its right of way in six streets. F. Wayland Ayer may be addressed.

JERSEY CITY, N. J.—Bids are asked by the city clerk until May 2 for paving in portions of Grace St. and Harmon St. with Belgian blocks.

JERSEY CITY, N. J.—Bids are asked until May 2 for improving Lienau Place, from Prospect St. to Waverly St. Geo. T. Bouton, Clk. Bd. St. and Water Comrs.

RUTHERFORD, N. J.—Bids are about to be asked by the street committee for macadamizing in Railroad Ave. and High St.

FRANKLIN, PA.—It is reported that this place will construct about 2,500 sh. yds. of brick paving in June. Thos. L. Kennerdell, Cy. Engr.

GREENSBURG, PA.—Cyrus T. Long, Borough Engr., informs us that 2,550 sq. yds. of brick paving will be laid; estimated cost, $3,300.

McKEES ROCKS, PA.—James McAfee & Co., McKees Rocks, has been awarded a contract at $16,448 for brick paving in Island Ave.

NORTHAMPTON, PA.—The grand jury has approved a proposition to improve the highway along the Delaware River and Martin's Creek for a distance of six miles, at a cost of $3,000. J. W. Wood, Pres. Board of Trade, Easton.

READING, PA.—Bids will soon be asked to pave six or seven streets with sheet asphalt and lay brick gutters in a number of streets. S. S. Hoff, Cy. Engr.

UNIONTOWN, PA.—Bids are asked until May 2 for furnishing about 600,000 paving brick. Cooper & Van Swearingen, Borough Solicitors.

LOUISVILLE, KY.—Bids are asked until May 2 for furnishing about 1,000,000 paving brick; surety, $1,500. Harry T. Weaver, Cy. Buyer.

ALLIANCE, O.—Bids are asked until May 16 for the purchase of $200,000 of street improvement bonds. J. H. McConnell, Cy. Clk.

CINCINNATI, O.—Bids are asked until May 5 for macadamizing Francisco St., from Fulton Ave. to St. James Ave. A. P. Butterfield, Clk. Bd. Pub. Wks.

CLEVELAND, O.—Bids are asked until May 24 for brick paving, curbing, etc., in Churchill St., between Doan and Parkwood Sts., and paving with Medina dressed blocks in Prospect St., between Erie and Brownell Sts. Geo. R. Warden, Dir. Pub. Wks.

EAST LIVERPOOL, O.—Bids are asked until May 23 for paving the sidewalks and roadway in portions of Monroe, Jackson and Jefferson Sts. J. W. Hanley, Cy. Clk.

KENTON, O.—Bids are asked until May 7 for macadamizing about 16½ miles of pike road in Hardin county. Jam s Bastable, County Audr.; W. E. Myers, County Engr.

LIMA, O.—An ordinance has been passed by the council for brick paving, grading, etc., in South Main St. J. M. McVey, Pres. Council; C. E. Lynch, Cy. Clk.

YOUNGSTOWN, O.—Bids are asked until May 9 for constructing and relaying sidewalks and crosswalks. H. W. Calvin, Clk.

BLOOMINGTON, IND. — The county commissioners awarded the following contracts April 14 for county roads in Perry and Van Buren townships: Rogers Pike, $4,000, James N. Blair; Smith pike, $2,700, James N. Blair; Hendricksville pike, $4,240, John J. Campbell; South Bedford, $3,981, John J. Campbell; South Salem, $4,000, Donaldson & Campbell; Rockport Perry, $6,000, Hensley & Farr; Rockport Van Buren, $6,048, Dobson & Sons; and Dinsmore Extension, $11,300, John S. Rogers.

BLUFFTON, IND.—The Indiana Bermudez Co. was awarded a contract by the council April 14 for about 12 blocks of asphalt paving, at $29,601, according to reports.

COLUMBUS, IND.—Bids are asked until May 4 for constructing sidewalks in Washington, Third and Fourth Sts.; also for curb and gutter in Seventh St. J. W. Suverkrupt, Cy. Clk.; Wm. J. Beck, Mayor.

BRAZIL, IND.—Bids are asked until May 16 for the purchase of $49,000 in road bonds. Furtney Brown, County Treas.

MONTICELLO, IND.—Bids are asked until May 7 for macadamizing, grading, draining, etc., in portions of Illinois St., Main St., Main Cross St., Court St. and Marion St.; and until May 14 for macadamizing in Main St., from Marion St. to North St. Web. P. Bushnell, Engr.

SCOTTSBURG, IND.—Bids are asked until May 6 for constructing about 26 miles of macadam roads; estimated cost, $30,969. James L. Fisher, County Auditor.

ANN ARBOR, MICH.—The following bids were received April 13 for paving, as advertised in Engineering News: Brick paving: W. J. Clancy, $16,409; W. W. Hatch, $16,767; Lephard & Winterhalter, $16,933; Kerlin Bros., $17,044; Talbot Paving Co., $19,952; W. M. Graham, $20,159. Asphalt paving: Alcatraz Asphalt Co., $16,623; Ayres Construction Co., $21,742; F. E. Cole, $28,263. Glen V. Mills, Cy. Clk.

DETROIT, MICH.—Bids are asked until April 28 for 20,870 sq. yds. of cedar block paving on concrete foundation; estimated cost, $31,300. H. D. Ludden, Cy. Engr.

FLINT, MICH.—The board of public works awarded a contract to John J. Granville, Saginaw, April 21, at $24,505, for paving portions of five streets with brick. Fred. P. Baker, Cy. Clk.

GRAND RAPIDS, MICH.—Bids are asked until April 29 for improving Canal St., from Coldbrook St. to Leonard St. Dudley E. Waters, Pres.; Fred. A. Twamley, Clk. Bd.

MUSKEGON, MICH.—A county road will be constructed from this place to North Muskegon, for which $25,000 was recently voted.

SAGINAW, MICH.—Bids are asked until April 29 for asphalt paving in Warren Ave., from Johnson St. to Potter St. Alfred Davies, Clk. Bd. Pub. Wks.

KEOKUK, IA.—Bids are asked until April 30 for constructing gutters in portions of 16 streets. G. M. Walker, Cy. Engr.

MUSCATINE, IA.—This city will construct about a mile of brick paving this year; estimated cost, $30,000.

MANUFACTURING PLANTS.

BROOKLYN, N. Y.—Plans are being prepared, according to reports, for an addition and alterations to the brewery of Piel Bros., at Liberty and Sheffield Aves. Arch., Hubert Dresser, 2 Stone St., New York.

NEW YORK, N. Y.—Bids will soon be asked for the erection of a new factory building at Hudson and Spring Sts., for the Trinity Church Corporation. Agent, S. V. R. Cruger, 187 Fulton St.; Arch., Chas. C. Haight, 111 Broadway.

BELLEFONTE, PA.—A fire at this place, April 21, destroyed two buildings occupied by the Bellefonte Car Works, the flouring mill and elevators of Col. W. F. Reynolds, and adjoining buildings, causing a reported loss of $100,000.

PITTSBURG, PA.—It is reported that the Drake & Stratton Co. has been awarded the contract by Laughlin & Co. for the construction of a large ore stock yard at the Eliza furnaces, and for the entire remodeling of the large freight yards of Jones & Laughlins and the Monongahela Connecting R. R. at that point. This is the beginning of the remodeling and modernizing of the big blast furnace plant, which, when completed, will be second only to that of the Carnegie Steel Co. The improvements will cost about $150,000.

AKRON, O.—The works of the Enterprise Mfg. Co. were struck by lightning and burned, April 17, causing a reported loss of $75,000; insurance, $45,000.

RICHMOND, IND.—Our correspondent informs us that the Starr Piano Co. will enlarge its plant and equip it with automatic sprinklers.

ATWATER, MINN.—Reports state that E. P. Allis & Co., of Milwaukee, Wis., has been awarded the contract for furnishing new machinery for the mill of the Atwater Milling Co.

BEATRICE, NEB.—It is reported that the Dempster Mill Mfg. Co. will soon erect a new plant at Beatrice, at a cost of about $30,000.

DEADWOOD, S. DAK.—Reports state that the Deadwood & Delaware Co. will erect new smelting works to replace those burned last month. The engines are to be furnished by the E. P. Allis Co., of Milwaukee; the machinery by the Gates Iron Works and Frazer & Chalmers, of Chicago; and the materials by the Gillette-Herzog Mfg. Co., of Minneapolis, Minn.

PETALUMA, CAL.—The Petaluma Woolen Mills were damaged by fire, April 19; reported loss, $35,000. Mr. Dannanbaum, of San Francisco, Cal., is said to have been the principal owner.

WALLACE, IDAHO.—The concentrator of the Morning Mine at Wallace was destroyed by fire, April 18, according to reports, causing a loss of $100,000; insurance, $60,000. Owners, Larson & Greenough.

BRANTFORD, ONT.—Havill & Whitham have been awarded the contract for erecting the new factory building for the Verity Plow Co., according to reports, at $51,000. Archs., J. M. Miller & Co., Toronto, Ont.

GALT, ONT.—Plans are being prepared for a 3-story stone factory, mill construction, to be erected on Queen St., for Turnbull & Co. Arch., F. W. Mellish.

GAS PLANTS.

LYONS, N Y.—The board of aldermen has granted a franchise to John T. Kilham, New York, for piping natural gas throughout this city. Calvin Hotchkiss and Police Justice Chas. P. Williams, Lyons, may be addressed.

NEW YORK, N. Y.—Bids are asked until May 2 for supplying gas on Blackwell's Island and for certain city prisons. Francis J. Lantry, Comr. Dept. Correction, 148 East 20th St.

MANCHESTER, VA.—Reports state that the Richmond Gas Co. has offered a proposition to the council to supply this city with gas under a 30-year franchise.

BIRMINGHAM, ALA.—It is reported that the Birmingham Gas Co. has awarded contracts for the construction of a steel gas holder of about 200,000 cu. ft. capacity and for new piping and relaying mains; estimated cost, $25,000.

WYANDOTTE, KAN.—The Wyandotte Gas Co. has decided to extend its plant to Armourdale, according to reports.

NEW COMPANIES.—Decatur Gas & Electric Co., Decatur, Ill.; $400,000; to operate electric plants for manufacturing purposes; W. C. Johns, G. C. Danforth, Joseph Housam.

Chipmunk Oil & Gas Co. (Lim.), Olean, N. Y.; to drill for oil and gas; $3,250; T. B. Collopy, T. Coughlin, Edward P. Jones, G. P. Sheridan, Olean; L. C. Carrier, Ceres.

Garrett Pumping Co., Corsicana, Tex.; to purchase, lease or develop coal, natural gas or petroleum within the city limits of Corsicana; L. C. Garrett, F. C. Hand, J. M. Blanding.

New York Oil Co., Fresno, Cal.; $100,000; Thomas M. Martin, Rahway, N. J.; Karl W. Brown, T. E. Morris, F. M. Helm, Fresno.

Athens Oil & Gas Co., Athens, O.; $30,000.

Sherwood Oil & Gas Co., Sherwood, O.; $50,000.

National Gas Co., Seattle, Wash.; $1,000,000.

MISCELLANEOUS CONTRACTS.

BONDS.—Crookston, Minn.—Bids are asked until May 3 for the purchase of $24,000 in 6% ditch bonds. John Gleason, County Audr.

TELEPHONE LINE.—South Bend, Wash.—The Sunset Telephone Co. will construct a line from this place to Bay Center, a distance of 6 miles.

CEMENT.—Galveston, Tex.—It is reported that the war department has awarded a contract to James J. Clark, New Orleans, La., for furnishing 10,000 bbls. of cement.

TELEPHONE LINE.—Skippack, Pa.—Press reports state that the Keystone Telephone Co., Dr. J. W. Groff, Pres., will construct a telephone line from Skippack to Telford.

STONE DAM.—Mazeppa, Minn.—Bids are asked until May 10 for constructing a stone dam across the Zumbro River at this place. Mason, Olson & Engelhart, Forest Mills, Minn.

CEMENT.—Baltimore, Md.—The National Building & Supply Co., Baltimore, Md., has been awarded a contract by the government to supply 28,000 bbls. of cement to be used for fortification purposes.

FIRE ALARM BOXES.—New York, N. Y.—The fire department awarded a contract, April 20, to Frederick Pearce, 79 John St., at $9,375, for furnishing 200 fire alarm boxes and 100 keyless doors for same.

NAVAL SUPPLIES.—New York, N. Y.—Bids are asked until May 3 for furnishing the New York Navy Yard with lead, brass and copper pipe tubing and cement, valves, etc. Edwin Stewart, Paymaster-Gen., Washington.

PARK.—Hampden, Me.—Reports state that the Bangor, Hampden & Winterport Ry. Co. will lay out a park at this place. Chas. D. Stanford and Julius Waterman have been appointed a committee. Gen. Henry L. Mitchell, Pres.

CONDUIT.—Erie, Pa.—The contract for the building of the conduit in State St., from Second to Eighteenth, has been transferred from V. D. Eichenlaub to Kraft & Walther. The work will begin at once and will be completed in about 40 days.

BOILERS AND ENGINE.—Boston, Mass.—Bids are asked by the navy department, Washington, until May 3, for furnishing three horizontal steam boilers and one automatic cut-on engine for the Boston navy yard. Edwin Stewart, Paymaster-Gen., Washington.

TELEPHONE LINE.—Greenwood, Wis.—H. H. Heath, of Neillsville, Wis., has been granted a permit to put in a telephone system to connect with Neillsville, Marshfield and the towns surrounding Greenwood. Work will be started as soon as the condition of the ground will allow.

EASEMENT.—Sacramento, Cal.—Bids are asked until May 5 for constructing 2,000 lin. ft. of concrete easement and bulkheads, requiring about 3,333 cu. yds. of rip-rap masonry, 100,000 lin. ft. of redwood lumber and 300 redwood piles; check, $2,000. John Markley, Secy. Auditing Bd., Sacramento.

TELEPHONE LINE.—St. Paul, Minn.—It is stated that the Mississippi Valley Telephone Co. will begin the construction of its proposed line at once. It was recently granted a 25-year franchise. Bond, $25,000. Pres., J. C. Hubinger, Keokuk, Ia.; Mgr., B. S. G. Collins, Pioneer Press Bldg., St. Paul.

LOCKS AND APPROACHES.—New Orleans, La.—We are informed that the following bids were received by Maj. B. Quinn, U. S. Engr., Custom House, New Orleans, for constructing lock and approaches for improving Bayou Plaquemine, La., as advertised in Engineering News:

Christie, Lowe & Hayworth, Chicago	$680,864
Griffiths & McDermott, Chicago	616,674
J. V. Haag, Jr., Pittsburg, Pa	1,005,583
Am. Construct'g Co. (I. E. Wright), New Orleans	694,323
Jacob Friday Co., Pittsburg, Pa.	595,939
Jas. Stewart & Co., St. Louis, Mo.	501,758
Western Const'n Co.,* and McArthur Bros. Co.†	675,855
National Constructing Co., New York	602,645
Chicago Star Const'n & Dredging Co.	635,499
Warren-Scharf Asp. & Pvg. Co., New York	636,616
Lyden & Burke, Chicago	567,653

*Charlestown, W. Va. †Chicago, Ill.

CONTRACT PRICES.

PAVING.—Saginaw, Mich.—We are informed that the following bids were recently received by the council for paving and repaving Warren St., from Genesee Ave. to Johnson St.; H. E. Terry, Cy. Engr.:

Excavation	1,485 cu. yds.	$0.07	$0.13	$0.10	$0.20
Brick paving	4,060 sq. yds.	.98	1.00	.98	1.05
Tile drain	120 rods	.63	.60	.75	.70
New curb	800 ft.	.43	.33	.65	.50
Curb reset	1,175 "	.04	.04	.06	.01
Retaining timber	225 "	16.00	20.00	15.00	17.00
12-in. basins	2 each	3.00	2.00	6.00	3.00
Total		$4,559	$4,644	$4,823	$5,136

WATER PIPE AND LAYING.—New York, N.Y.—The following bids were received by the department of water supply April 21 for furnishing and laying water pipe in Fordham road, across the Harlem River Ship Canal, and in 230th St.; the work to be completed in 200 days; all local bidders; the lowest was that of Peter Fruh, Brooklyn (about $50,000):

Bids Received at New York, N. Y., April 21, for Furnishing and Laying Water Pipe.

Quantities.		Peter Fruh.	Wm. H. Masterson.	E. B. Van Winkle.	Merritt & Chapman D. & D. Co.	T. F. Myers & Co.	J. Cornwall, Jr.	T. A. Gillespie & Co.	J. A. Barry.	M. J. Dady, Bklyn.	T. P. McQuaid.
Rock excavation	500 cu. yds.	$2.50	$2.00	$2.00	$1.00	$1.30	$0.35	$2.50	$0.35	$3.50	$2.50
Earth excavation	20,000 " "	.29	.35	.555	.35	.40	.35	.45	.40	.69	.50
Filling	5,000 " "	.20	.10	.25	.10	.10	.01	.25	.01	.10	.50
Rip-rap	250 " "	.60	1.50	.95	1.00	1.00	1.50	1.00	1.50	1.25	3.00
36-in. pipe	500 lin. ft.	4.80	5.17	5.30	4.00	7.00	7.00	5.40	7.00	5.50	4.85
20-in. "	2,000 " "	2.60	2.65	2.50	2.95	2.70	2.70	2.65	4.00	2.90	2.60
12-in. "	200 " "	1.35	1.30	1.25	2.00	1.50	1.65	1.30	2.00	1.68	1.18
6-in. "	150 " "	.70	.75	.65	1.00	1.00	.80	.70	.80	.86	.50
36-in. stop-ck & g'r'g	1	520.00	600.00	532.00	413.00	700.00	750.00	500.00	640.00	750.00	406.00
20-in. " "	5 each	150.00	125.00	177.00	100.00	120.00	150.00	150.00	120.00	130.00	137.00
12-in. " & bxes	4 "	50.00	50.00	47.50	25.00	100.00	75.00	45.00	60.00	50.00	48.00
6-in. " "	6 "	28.00	35.00	32.50	10.00	50.00	35.00	30.00	20.00	30.00	30.00
D'ble nozz. hydrants	8 "	60.00	40.00	48.00	23.75	55.00	45.00	50.00	38.00	75.00	23.00
Brick masonry	75 cu. yds.	10.00	10.00	12.00	10.00	10.00	9.00	10.00	8.00	11.00	12.00
36-in. pipe, flex. j'nts	1,200 lin. ft.	25.95	35.00	38.50	35.15	51.50	54.00	29.50	44.00	30.00	36.00

BOILER FLUES.—Troy, N. Y.—Bids are asked by the fire department commissioners, until May 2 for furnishing new boiler flues, etc., for the Washington volunteer engine. Chas. W. Peeble, Clk.

DRAINAGE.—Winnipeg, Man.—Bids will be asked by the provincial government, about June 1, for the drainage of the Boyne marsh, which includes about 400,000 acres, according to reports.

TELEPHONE SYSTEM.—Janesville, Wis.—The Janesville Telephone Co. has been incorporated, with a capital stock of $25,000, to operate a telephone system in this place, according to reports.

CHANNEL.—Joliet, Ill.—Bids will soon be asked, according to reports, by the Chicago drainage commission, the Rookery Bldg., Chicago, for the construction of a channel through this place.

MISCELLANEOUS SUPPLIES.—West Point, N. Y.—Bids are asked until May 21 for furnishing building materials, iron pipe, hardware, tools, etc., according to reports. Capt. J. B. Bellinger, Asst, Q. M.

STEAM TENDERS.—St. Louis, Mo.—Bids are asked until May 27 for furnishing five steel-hulled steam tenders, as stated in our advertising columns. Capt. H. E. Waterman, U. S. Engr., Secy. Mississippi River Comm.

STONE AND BRICK.—Philadelphia, Pa.—Bids are asked by the board of prison inspectors, 10th and Reed Sts., until May 2 for furnishing hand-made brick and Conshohocken foundation stone. R. C. Motherwell, Supt.

DREDGING.—Baltimore, Md.—The board of harbor commissioners awarded a contract April 22 to the Baltimore Dredging Co., at $17,780, for removing about 250,000 cu. yds. of material. W. H. Hutton, Ch. Engr.

CHANNEL WORK.—Detroit, Mich.—We are informed that Lieut.-Col. G. J. Lydecker, U. S. Engr., Telephone Bldg., Detroit, received the following bids April 21 for completing improvement of channel connecting the waters of the Great Lakes between Chicago, Duluth and Buffalo, so far as respects shoals in Detroit River, as advertised in Engineering News:

Bidder.	Dredging A net ton.	Dredging A cu. yd.	Dredging Plant, an hr.
Michael Sullivan, Detroit, Mich	$2.60	$2.15	.....
Carkin, Stickney & Cram, Detroit,	1.97	2.95	$15.00
James Rooney, Toledo, O.	2.15	3.20	9.00
G. H. & J. B. Breymann, Toledo, O.	2.25	3.50	10.00
L. P. & J. A. Smith Co., Cleveland	2.80	4.15	15.00
W. A. McGillis & Co., Cleveland, O.	3.50	5.25	11.25
J. R. McCollum, Port Huron, Mich.	....	....	11.00

WATER PIPE.—Auburn, Ind.—We are informed that the following bids were received April 23 for furnishing cast-iron water pipe and special castings, *f. o. b.* Auburn; J. J. Van Auken, Cy. Engr.:

Bidder.	Cast-iron water pipe.	Special castings.
Southern Pipe Co., Anniston, Ala.	$15.30	$37.50
Ohio Pipe Co., Columbus, O.	15.49	35.00
Addyston Pipe & Steel Co., Cincinnati	14.85	35.00
Chattanooga (Tenn.) Foundry Co.	15.75	40.00
So. Pittsburg (Tenn.) Pipe Works	15.17	37.50
Howard-Harrison Pipe Wks, Bessemer	16.50	40.00

EXCAVATING.—Dartmouth, N. S.—The following bids were received by the council April 15 for excavating for water main connections and the James St. extension: James St. extension, A. Awalt, solid rock, $2.50 a cu. yd.; loose rock, $1.50; earth, 30 cts.; W. H. Small, solid rock, $2.50;

loose rock, 60 cts.; earth, 30 cts.; refilling, 15 cts.; M. Graham, solid rock, $2.40; loose rock, 40 cts.; earth, 27 cts.; refilling, 12 cts. House service, W. M. Small, prices as above. A. Awalt, solid rock, $2.50; loose rock, 50 cts.; earth, 27 cts.; refilling, 15 cts.; M. Graham, solid rock, $2.40; loose rock, 40 cts.; earth, 27 cts.; refilling, 12 cts. Both contracts were awarded to M. Graham.

NAPHTHA LIGHTING.—Binghamton, N.Y.—B.W.Mosher, Cy. Clk., informs us that the following bids were received April 19 for naphtha lighting, with 175 lights, as advertised in Engineering News: Carbon Light & Power Co., term of one year, 3.95 cts. a lamp a night; term of two years, 3.90 cts. a lamp a night; term of three years, 3.81 cts. a lamp a night; Welsbach Lighting Co. of America, term of one year, 8⅝ cts. a lamp a night; term of two years, 8¼ cts. a lamp a night; term of three years, 8⅛ cts. a lamp a night. N. Y. & N. J. Globe Gas Light Co., term of one year, 6.03 cts. a lamp a night; term of two years, 5.87 cts. a lamp a night; term of three years, 5.76 cts. a lamp a night. M. T. Garvey term of one year, 5 cts. a lamp a night; term of two years, 4½ cts. a lamp a night; term of three years, 4 cts. a lamp a night. Michael F. Long, term of one year, 7½ cts. a lamp a night; term of two years, 6½ cts. a lamp a night; term of three years, 4.90 cts. a lamp a night. New York Street Lighting Co., term of one year, 6½ cts. a lamp a night; term of two years, 5¾ cts. a lamp a night; term of three years, 5 cts. a lamp a night.

PIPE SEWERS.—Scranton, Pa.—The following bids were received in councils April 21 for constructing a lateral sewer in Monsey Ave. and Green's Place; length of sewer, 1,550 ft. of 8, 10 and 12-in. pipe, average depth, 12 ft; the price a lineal foot to include 13 manholes, 2 basins and 1,120 ft. of house connections; Flanagan & O'Hora, $1.64 a ft. complete; Donahoe & O'Boyle, $1.59 a ft., complete, extra manholes $23, extra basins $70; Howley & Gillespie, $2,045 a ft., complete, extra manholes $45, extra basins, $90; V. H. O'Hara, $1.43 a ft., complete, extra manholes $30, extra basins $90; Bolton G. Coons, $1.95 a ft., complete, extra manholes $40, extra basins $90. Joseph P. Phillips, Cy. Engr.

ELECTRIC LIGHTING.—Albion, N. Y.—It is reported that Albion Electric Co. has made the following proposition to the board of trustees for lighting the streets of Albion for a term of years: Fifty 2,000 c. p. arc lights on all dark nights until midnight, at $75 a light a year for a 5-years' contract, and $80 a light a year for a 3-years' contract; the same number of lights on all dark nights until 10 o'clock a. m., at $82.50 a light a year for 5 years, and $87.50 a light a year for 3 years.

WATER PIPE, SPECIALS, ETC.—Worcester, Mass.—John P. Brady, Water Comr., writes us that the National Pipe & Foundry Co., Scottdale, Pa., has been awarded the contract for furnishing cast-iron water pipe at $16.60 a net ton, and specials at $37.00 a ton. The Chapman Valve Mfg. Co., Indian Orchard, Mass., has the contract for the valves and gates. The pipe is for the extension to Kettle Brook; estimated cost, $163,189.

SEWER PIPE.—Wheeling, W. Va.—We are informed that the following contract was awarded April 9 for furnishing sewer pipe, the discounts being from the bidders' card rates. Thos. A. Little, Wheeling, W. Va., 6 to 12-in. pipe, 88½%; 15-in., 87½%; 18-in., 85½%; 20-in., 84%; 24-in., 82%; 30-in., 65%. Wm. H. Hornish, Clk. Bd. Pub. Wks.

INDUSTRIAL NOTES.

THE LEFFLER ELECTRO MAGNETIC CO., Chicago, has removed its offices to 700 and 702 Fisher Bldg.

DENTON & CO., contractors for artificial stone, concrete and asphalt, have removed their offices from 2 and 4 Stone St. to 42 East 23d St., New York.

THE F. W. EMERSON MFG. CO., Rochester, N. Y., has bought the business of the Morse Machine Co., manufacturer of drafting room furniture.

THE HAZARD MFG. CO., Wilkes Barre, Pa., manufacturer of wire rope, will remove its New York office, May 1, from 87 Liberty St. to 50 Dey St.

THE PITTSBURG REDUCTION CO., Pittsburg, Pa., is reported to have completed an order for 25 miles of aluminum telegraph wire for the U. S. government.

THE NEW YORK MASTIC WORKS, the American branch of the Compagnie Generale des Asphaltes de France, Ltd., has removed its offices from 35 to 32 Broadway, New York.

MR. WILLIAM E. QUIMBY, manufacturer of the Quimby screw pump, will remove his office, May 1, from 122 Liberty St. to the Washington Life Bldg., 86 Liberty St., corner of Broadway, New York.

THE McMYLER MFG. CO., Cleveland, O., has an order from the Cleveland, Lorain & Wheeling Ry. for one car unloader for the docks at Lorain, O., to cost $50,000, including tracks and docks.

THE WESTINGHOUSE AIR BRAKE CO., Pittsburg, Pa., has the contract to equip the cars of the Cleveland, Canton & Southern R. R. with air brakes and improved couplers, at a cost of about $250,000.

MR. A. N. PALMER, of Baltimore, Md., has purchased the business of the Zamoiski-Palmer Co., of which he was formerly a member, and will continue in the general electrical business at 219 East Baltimore St., Baltimore, and 34 Bank St., Norfolk, Va.

THE SPRAGUE ELECTRIC CO., New York, has declared a dividend of 3% on the preferred stock, payable on May 2.——One of the latest contracts awarded the company is for an outfit of ten electric elevators for the Commerce Realty building, St. Louis.

THE PENNSYLVANIA CAR WHEEL CO., Allegheny, Pa., has begun operations with a force of 200 men. Its first order is for wheels of a special design for the 100,000-lb. steel hopper cars being built by the Schoen Pressed Steel Co. for the Pennsylvania R. R.

THE NEW YORK FILTER MFG. CO., which has recently purchased the rights of the Jewell and the Warren filters, as noted in recent issues of our paper, has removed its offices from the Beard Bldg., 120 Liberty St., to the Havemeyer Bldg., 26 Cortlandt St., New York. The Boston office is at 220 Devonshire St.

THE WAKEFIELD SHEET PILING CO., The Rookery, Chicago, has been granted a perpetual injunction in the U. S. Circuit Court of Illinois against Heiro B. Herr & Co., Chicago, restraining them from manufacturing, selling or using sheet-piling constructed in accordance with or embodying the invention of the Wakefield Company.

THE BERLIN IRON BRIDGE CO., East Berlin, Conn., has completed a steel bridge 427 ft. long and 52 ft. wide at Grand Ave., New Haven, Conn. The approaches consist of two deck plate-girders and the draw-span is 200 ft. long and is operated and the bridge lighted by electricity. The roadway is paved with vitrified brick adapted to heavy city traffic.

THE SOUTHERN PIPE CO., Anniston, Ala., has purchased the plant and equipment of the Anniston Pipe & Foundry Co., at that place, and will continue the manufacture of cast-iron pipe and special castings. The company will complete all existing contracts and fill all orders on hand of the Anniston Pipe & Foundry Co. at the time of its dissolution.

THE BRADLEY PULVERIZER CO., Boston, Mass., has an order for four pulverizers from the Illinois Steel Co., Chicago, for use in its new works, now under construction, for the manufacture of clay cement.——An order has also been received from the Berkshire Cement Mills, Stamford, Conn., for a full line of pulverizers for use in its new plant at that place.

THE MICHIGAN BRASS & IRON WORKS, Detroit, recently secured through its Chicago office the contract to supply the city of Cleveland, O., with valves and hydrants as follows: Valves, 10, 3-in.; 200, 4-in.; 100, 6-in.; 20, 8-in.; 20, 10-in.; 20, 12-in.; 4, 16-in.; 1, 20-in.; 1, 24-in.; 2, 30-in.; 2, 36-in.; 3, 42-in., and 15, 48-in. Hydrants, 150, 4-in., and 20, 6-in. The contract price amounted to about $25,000.

THE BALDWIN LOCOMOTIVE WORKS, Philadelphia, is reported to have orders for six consolidation locomotives for the Robla a Valmaseda R. R., of Spain; 12 Vauclain compound six-coupled tank locomotives, with pony trucks, for the Chinese Eastern R. R., China; ten 10-wheel freight locomotives and four Atlantic type passenger locomotives, with Wooten boilers, for the Lehigh Valley R. R.

THE CRAFTS MACHINE & TOOL CO., Buffalo, N. Y., issues a circular showing an interesting variable speed-changing device, for planers and other tools where a change of speed is desired. When applied to a planer the backing speed is kept always at the same or maximum speed, while by moving one or other of a series of belt-shifters, throwing into gear different sizes of pulleys, the forward speed may be changed according to the kind of cut.

THE Q & C CO., 700 Western Union Bldg., Chicago, reports several large orders received for Q & C-Stanwood steel car steps, two of them being government orders for the steamships "Atlanta" and "Newark." Several railways are trying sample steps and are noting the results given in service. The company is in position to furnish these steps of any desired dimensions, including special steps for running boards on engines, car steps, ship treads, etc.

THE SPRAGUE ELECTRIC CO., New York, has a contract for the equipment of the Library of Congress, Washington, with Lundell exhaust fan outfits, to be operated by Lundell power motors. The electric elevator machines for the London Underground Ry. will be shown at the Electrical Exposition, to be held in May, at Madison Square Garden, New York.——The John Stephenson Co., Ltd., has awarded the Sprague Company another large contract for Lundell power motors, with which to equip its blacksmith and machine shops, at its new car building plant, Elizabethport, N. J.

JOHN S. METCALF & CO., of Chicago, inform us that they are builing a 500,000-bushel grain elevator for the Canada Atlantic Ry. at Coteau Landing, Que., Canada. This elevator is to handle grain coming from the western lake ports through J. R. Booth's elevator at Parry Sound, Ont., and over the Canada Atlantic Ry. to Coteau Landing. It is then transferred into barges and taken down to Montreal, where it is loaded into ocean steamers. They are also building a new belt conveyor, 700 ft. long, for the Montreal Warehousing Co., running from the elevator to the wharf at Windmill Point basin, where ocean steamers are loaded. The firm has recently completed a large grain elevator on the Manchester Ship Canal.

THE SHIFFLER BRIDGE CO., Pittsburg, Pa., has the following contracts: A steel-frame blast-furnace engine house and beam-yard power house for the Cambria Iron Co., Johnstown, Pa.; eight iron and steel buildings for the new plant of the McKenna Steel Working Co., Kansas City, Kan.; a 140 x 160-ft. extension to the sheet mill building of the Apollo Iron & Steel Co., Vandergrift, Pa.; a large addition to the bar mill building of the Shenango Valley Steel Co., New Castle, Pa., and four large buildings for the new plant of the Eping-Carpenter Co., Pittsburg, Pa., consisting of a 50 x 100-ft. brass foundry, 950 x 100-ft. blacksmith shop, a 50 x 50-ft. fitting shop and a 100 x 200-ft. machine shop, according to report.

THE SCHERZER ROLLING LIFT BRIDGE CO. has removed its general offices from 1044 Unity Bldg. to 1615-16 Monadnock Block, Chicago. The company has recently contracted with the Sanitary District of Chicago to design an eight-track rolling lift bridge, over the Drainage Canal, to be used by the Pennsylvania R. R., the Northern Pacific Ry. and the Chicago, Hammond & Western R. R. This, it is stated, will be the largest movable bridge in the world. A contract has also been received for furnishing plans and superintending the construction of a six-track rolling lift bridge, to be composed of three separate double-track bridges, side by side, to be operated independently or jointly, at the new terminal station at Boston, Mass.

THE BETHLEHEM IRON CO., South Bethlehem, Pa., has an order for the shafts of the engines which the Metropolitan Traction Co., New York, will install in its new power house. They are 37 ins. in diameter, 27 ft. 4 ins. long, with a 16-in. hole through them, and are made of fluid compressed open hearth steel, annealed, and hydraulically forged on a mandrel. The former company is said to have the only forge in this country equipped for turning out work of this character and magnitude. The cranks will also be made by this company. Notwithstanding that the company has orders for finished guns, gun carriages and gun forgings to be completed at the various government yards, the number of orders for merchant work, such as shafting of various descriptions, both solid nad hollow, and of plain and nickel steel, is increasing daily. Last week the company was asked to name a price on shafting for a Japanese torpedo boat.

THE SPRAGUE ELECTRIC CO., Commercial Cable Bldg., New York, announces that it will exhibit the following at the Electrical Exposition at Madison Square Garden, New York, May 2 to 31, inclusive: A type of each Sprague electric elevator; a direct-connected light plant; Lundell power and fan motors; exhaust fan outfits; a printing machine in operation, together with blowing outfit; a cab of the London type, with automobile motor and Sprague controller; screw pumps; armatures; conduit; switch boards and conduit racks.——One of the latest contracts received for Lundell motors is from the John Stephenson Co., Elizabethport, N. J. Each of these machines will have its independent motor, and the sizes used will be from 3 to 40 HP., mostly large sizes. Some will be direct-connected, the rest geared.——Messrs. Walker, Bailey & Co., Buenos Ayres, Argentine Republic, are now installing the first outfit of electric motors for a weaving factory, which is to be driven by Lundell motors, each to be of sufficient power to drive six machines. This is said to be the first factory in that country to use electric power exclusively.

NEW COMPANIES.—Cassidy Electrical Switch Co., East Orange, N. J.; $100,000, commencing with $1,000; to manufacture and deal in electrical machinery of every kind; John C. Cassidy, P. R. Bomeisler and Howard K. Wood, of East Orange.

Holland Elevator & Dredging Co., Denver, Colo.; $50,000; G. E. Crater, Jr., K. W. Millican and G. H. Shurtleff.

Batcheller Pneumatic Co., Washington, D. C.; $1,000,000; to construct and operate pneumatic tubes for the transmission of mail matter; Matthew C. Butler, James H. G. Martin and Myer H. Parker, of Washington; Eppa Hunton, Warrenton, Va.; Birney C. Batcheller, Philadelphia; John C. Calhoun and Fred S. Pearson, of New York.

Bouton Engine Co., Camden, N. J.; $50,000, commencing with $3,000; to build and repair engines; Samuel Bouton, Florian Veupillot, Wm. F. Ruwell and Alfred Henwood, of Philadelphia; Chas. P. Martindale, Camden.

National Brick Co., Camden, N. J.; $100,000, commencing with $1,000; to manufacture all kinds of bricks; John Brock and Geo. D. Armstrong, of Philadelphia; Joseph S. Hulme, Mount Holley, N. J.

Union Construction & Development Co., Millenbeck, Va.; $10,000, commencing with $100; to build and equip railways; E. L. Suffern, Plainfield, N. J.; L. Van Rensselaer, New Brighton (L. I.), N. Y.; J. K. Rodgers, South River, N. J.; F. J. Hamilton, New York.

Caffall Process Co., Newark, N. J.; $50,000, commencing with $30,000; to employ the Caffall processes in the permanent preservation of stone, brick, etc.; Edward H. Turner, Chicago, Ill.; Walter G. E. Ward, Newark; Ed. M. Caffall, New York.

Hudson River Shale Paving Brick Works, Jersey City, N. J.; $250,000, commencing with $1,000; to manufacture and deal in brick, terra cotta, etc.; John F. Harris, Jr., Catskill, N. Y.; Richard W. Turner and Milo J. White, Mount Vernon, N. Y.

Schmick Car & Rail Joint Mfg. Co., Martinsburg, W. Va.; $2,000,000, commencing with $80; to manufacture railway equipment, etc.; J. M. Kutz, Mahoney City, Pa.; M. L. Ruter, Reading, Pa.; H. J. Schmick and P. L. Deiner, of Hamburg, Pa.; Winslow Mason, Philadelphia.

Miller Construction Co., Kingwood, W. Va.; $50,000, commencing with $1,000; to furnish material for railway construction; D. L. Miller, J. M. Miller, J. L. Farley, W. H. Miller and G. L. Miller, all of Lock Haven, Pa.

Bacon Air-Lift Co., Ridgewood, N. J.; $50,000, commencing with $30,000; to manufacture water-works machinery, etc.; C. E. Buck, Richmond, Va.; Geo. R. Young, Ridgewood; John T. Gibson, New York; J. E. Bacon, Brooklyn, N. Y.

Lap Joint Railway Track Co., Bound Brook, N. J.; $100,000, commencing with $10,000; to manufacture railway tracks; Chas. K. Moore, Fanwood, N. J.; Harry M. Herbert, Bound Brook; Thomas H. Gibbon and Volney W. Mason, Jr., New York; Henry D. Day, North Hampton, Mass.

McKinnon Dash Co., Jersey City, N. J.; $700,000, commencing with $405,000; to manufacture and deal in iron and steel work; Chas. N. King, John J. Mulvaney and Chas. N. Conklin, Jersey City.

Ludlam Steel & Spring Co., Pompton, N. J.; $5,000, with all paid in; to manufacture steel railway car springs; Wm. E. Ludlum, Pompton; James Gore King, 29 Waverly Place; R. W. Peckham, Jr., 201 West 55th St., and Daniel A. Warren, 300 Manhattan Ave., all of New York.

Dustless Roadbed Co., Camden, N. J.; $1,000,000, commencing with $1,000; to manufacture patent railway appliances; A. J. Caset, W. Barklie Henry and Oswald J. De Rousse, Philadelphia, Pa.; J. H. Nichol and Henry M. Snyder, Camden.

International Curtis Turbine Co., East Orange, N. J.; $100,000, commencing with $1,000; to manufacture and deal in engines, turbines, and other machinery; Geo. H. Lambert, Chas. H. Stewart and Joseph K. Franks, all of Newark, N. J.

Eastern Electrical Construction Co., Philadelphia, Pa.; $50,000, commencing with $5,000; to manufacture and construct electrical plants; Wm. D. Barnard, 147 North 18th St., and Treas., Edgar M. Garnall, both of Philadelphia; William Hoopes, Bala, Pa.

Multiple Power Co., Philadelphia, Pa.; $2,500,000, commencing with $250; to acquire patents relating to the multiplication of power; A. P. Pearson, C. E. Lent, Oscar Hecker, J. E. Lewis and T. R. Heller, of Philadelphia.

Powell & Hahn Mfg. Co., Cincinnati, O.; $100,000, commencing with $20,000; to manufacture and deal in iron and steel; Robert Powell and G. G. Powell, Covington, Ky.; F. A. Hahn and Edward R. Nerckel, of Cincinnati; Conrad Gieble, Newport, Ky.

McCaffrey Magnetic Multiplying Power Co., Martinsburg, W. Va.; $5,000,000, commencing with $100; to manufacture electric motors, etc.; James McCaffrey, P. B. Watson, W. L. Teter and R. M. Robinson, of Philadelphia, Pa.; L. C. Statnaker, Hanover, Pa.

Potts Valley Iron Co., Columbus, O.; $30,000, commencing with $50; to mine iron, etc.; R. W. McCoy, C. E. Ellis, R. K. Ramsey, J. W. Keegan and E. C. Morton, of Columbus.

American Engineering Co., New York; $125,000, commencing with $100; to carry on a general engineering, manufacturing and contracting business; Wm. S. Jameson, Pueblo, Mexico; Henry Schofield, D. B. Wilmot, W. W. Gage and James F. Poey, of New York.

American Mfg. & Mining Co., Charleston, W. Va.; $100,000, commencing with $50; to conduct a general manufacturing business; E. A. Botkins, A. C. Gunther, A. E. Hawkins, W. A. Hawkins and R. T. Wilson, of Charleston.

Mountain State Construction Co., Clarksburg, W. Va.; to operate steam and electric railways, etc.; J. F. Allen, E. R. Davis, L. S. Hornor, B. W. Boggess and Fleming Howell, Clarksburg.

Kaolin Mfg. Co., Dillsboro, N. C.; $100,000, commencing with $1,000, to operate mines of kaolin, potters' clay, etc.; A. E. Roeber, H. B. Simmons and C. P. Simmons, of New York; R. L. Murray and F. E. Town, of Brooklyn, N. Y.

Mount Wrangell Co., Boston, Mass.; $5,000,000, commencing with $460; to construct and operate tramways, etc.; W. W. Fisk; C. M. Reed and E. P. Cutler, Boston; F. W. Pike, St. Paul, Minn.; G. A. Knox, Lynn, Mass.

Bates Aluminum Filter Co., Brooklyn, N. Y.; $10,000; R. J. Edwards, Boston, Mass.; F. A. Bates and Horace L. Hayden, of Brooklyn.

"ABOUT 100 BIDS."

The Nazareth, Pa., "Item," of April 22, says:

The Hellertown town council had about 100 bids for the construction of its new water-works. Bids were received from all parts of the United States.

The proposal advertisement for this work was published in Engineering News of March 31 and April 7. All contract work should be advertised in Engineering News if extensive competition from reliable contractors and manufacturers is what is desired.

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